

Sigurnost passworda

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Korisnici često za kriptografske namjene biraju velike duljine ključeva. Međutim, redovito za zaštitu ključa biraju password neadekvatne jačine. Ovaj članak daje osvrt na jačinu passworda i kako generirati dovoljno siguran password.

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1 Entropija

Pojam entropije informacijskog izvora uveo je Shannon u svom članku [5]. Ovdje će se ukratko iznijeti ideje potrebne za razumijevanje ostatka ovog članka.

Diskretni informacijski izvor generira poruku znak po znak. Prilikom generiranja poruke bira uzastopne znakove prema određenoj vjerojatnosti. Vjerojatnost često (pogotovo u govornom jeziku) ovisi o svim prethodno generiranim znakovima. Tako se npr. svaki slučajni proces koji generira nizove znakova izabranih iz konačnog skupa može smatrati diskretnim informacijskim izvorom. Neki primjeri su:

1. Govorni pisani jezici, poput engleskog, njemačkog ili hrvatskog.
2. Kontinuirani izvori informacije koji su diskretizirani (npr. PCM u telefoniji).
3. Matematički proces koji generira niz znakova. Npr. proces koji od znakova A, B, C, D i E bira svaki s vjerojatnošću $1/5$.

Neka informacijski izvor ima na raspolaganju n simbola od kojih se svaki generira s vjerojatnošću p_i , $1 \leq i \leq n$. Tada je entropija H tog skupa vjerojatnosti jednaka

$$H = - \sum_{i=1}^n p_i \lg p_i$$

(logaritam je po bazi 2) i mjeri se u *bitovima*. Entropija dostiže svoj maksimalan iznos kada su sve vjerojatnosti p_i jednake i iznose $p_i = 1/n$ (suma mora biti jednaka 1).

Diskretni informacijski izvor može se modelirati *Markovljevim lancem*. Markovljev lanac je sustav sa skupom stanja S_i , vjerojatnostima P_i da se sustav nađe u stanju i te vjerojatnostima prijelaza $p_i(j)$ iz stanja i u stanje j .

Entropija tako modeliranog diskretnog informacijskog izvora jednaka je

$$H = - \sum_{i,j} P_i p_i(j) \lg p_i(j)$$

To je ujedno i entropija po *jednom znaku* niza. Ako su uzastopni znakovi nezavisni, tada je entropija jednaka $-\sum p_i \lg p_i$ gdje je p_i vjerojatnost pojavljivanja znaka i .

Svaki govorni jezik ima *redundanciju*. Npr. engleski jezik ima 26 slova abecede i kad bi slova unutar riječi bila nezavisna, entropija bi iznosila $\lg 26 \sim 4.7$ bita po slovu. Međutim, procijenjeno je da je u engleskom jeziku entropija svega oko 1.5 bita po slovu [1].

2 Mogući napadi na passworde

- Najjednostavniji mogući napad je tzv. “dictionary attack”. Napadač ima na raspolaganju listu riječi (rječnik) te po redu isprobava riječi iz rječnika.
- Kombiniranje više riječi iz rječnika.
- Zamjena pojedinih slova riječi nekim znakovima ili znamenkama.
- “Brute-force” napad. Isprobavanje svih mogućih kombinacija slova, brojeva i znakova.

Složenost napada mjeri se brojem kombinacija koje treba isprobati da bi se pogodio password. Najsloženiji je posljednji slučaj: ako se pretpostavi da se u passwordu može pojaviti bilo koji od $127 - 32 = 95$ printabilnih ASCII znakova, tada je za isprobavanje svih kombinacija od 8 znakova (tipična max. dozvoljena duljina passworda na UNIX-u) potrebno isprobati $95^8 = 6634204312890625 \sim 6.63 \cdot 10^{15}$ kombinacija.

3 Generiranje dobrih passworda

Za odgovarajuću zaštitu kriptografskog ključa potreban je i dovoljno jak password. Nema koristi generirati npr. 1024-bitni asimetrični ključ ako je zaštićen passwordom poput “kokakola”.

3.1 Podrška OS-a

Mnogi UNIX operacijski sustavi imaju ugrađenu mogućnost generiranja pravih slučajnih brojeva na temelju vremenskih razmaka između pritisaka tipki na tastaturi, pomaka miša i slično. Tipično su ti generatori dostupni preko specijalnih device fileova, obično `/dev/random` ili `/dev/urandom`. Ako sam OS nema podršku za generiranje sigurnih slučajnih brojeva, moguće je instalirati EGD [6].

Za 128 slučajnih bitova treba pročitati 16 bajtova i enkodirati ih u base-64 što ih čini pogodnim za utipkavanje. Sljedeći primjer koristi OpenSSL i na ekran ispisuje niz znakova koji se može iskoristiti kao siguran password:¹

```
% openssl rand -base64 16
oz0iYS4XGGvVFzc0vUezqA==
```

OpenSSL na Linuxu koristi `/dev/urandom` za generiranje slučajnih brojeva.

Ako openssl nije dostupan, moguće je direktno čitati bajtove iz specijalnog filea i enkodirati ih u base-64 nekim utilityjem. Sljedeći primjer koristi perl i modul `MIME::Base64`:

```
% dd if=/dev/random bs=16 count=1 |
  perl -MMIME::Base64 -e '$/=undef; print encode_base64(<>), "\n";'
NP06jofMsHiMw7aAcSoH3Q==
```

Iako vrlo siguran, ovakav password se teško pamti. Zadnji znakovi = koji se ponekad pojavljuju (ovisno o željenoj duljini passworda) su “feature” base-64 encodinga.

Osim za passworde, ovako generirani niz znakova može se izravno koristiti i kao ključ za simetričnu enkripciju.

¹ % označava shell prompt

3.2 Diceware metoda

Ova metoda je vrlo jednostavna i čak ne zahtijeva ni kompjuter. Prvo se odabere od koliko riječi će se sastojati password. Sljedeći naputci preuzeti su iz [2], gdje ima i dodatnih detaljnih objašnjenja:

- Pet riječi za PGP i S/MIME.
- Šest riječi pri enkripciji diska.
- Sedam riječi daje dovoljnu sigurnost za dalju budućnost.

Metoda daje $\lg 6^5 \sim 12.9$ bitova entropije po riječi. Treba napomenuti da je potrebna i adekvatna fizička zaštita kompjutera na kojem će se koristiti jaki password.

Zatim se bacaju kocke: potrebno je 5 brojeva za jednu riječ. Svejedno je da li se jedna kocka baca 5 puta ili se 5 kocaka baca jedanput. Ako se baca više kocaka, neka se čitaju s lijeva na desno. 5 znamenaka daje jednu riječ iz tablice u prilogu. Budući da u listi ima dosta kratkih riječi, preporuča se generirati novi password ako je ukupna duljina riječi manja od 14 znakova.

Kada se izabere dovoljno riječi, treba dobro zapamtiti password i zapaliti papirić na koji se zapisivao. Treba pisati na tvrdoj podlozi. Ako se taj password koristi za enkripciju fajlova, preporuča se čuvati ga na sigurnom mjestu - ako ga se slučajno zaboravi i nema kopija, enkriptirani podaci su nepovratno izgubljeni. Preporuča se da se password utipkava *bez razmaka*: razmaknica na tastaturi ima karakterističan zvuk i netko tko je prisutan pri utipkavanju passworda može izbrojati koliko slova ima koja riječ, što jako olakšava pogađanje passworda.

Dodatna sigurnost može se postići korištenjem **tablice 1** na sljedeći način: prvo bacanje jedne kocke bira riječ u passwordu. Drugo bacanje bira slovo u riječi. Treće i četvrto bacanje bira znak iz tablice. Taj znak zamjenjuje originalno slovo u riječi i dodaje oko 10 bitova entropije ($-4 \lg 1/6 \sim 10.3$).

Ovako generirani password može se hashirati nekim kriptografskim hashom te se rezultat toga hash-a (ako je odgovarajuće duljine) može iskoristiti kao ključ za simetričnu enkripciju.

Umjesto kocaka može se koristiti i kompjuterski program, **ako je dobro napisan**. Nikako se ne smije koristiti C library `rand()` funkcija ili neki "običan" generator slučajnih brojeva. Neki "dobri" generatori je Javina `SecureRandom` klasa ili OpenSSL.

Sa adrese [8] može se downloadati source programa koji koristi OpenSSL kao generator slučajnih brojeva te proširenu listu od 8192 riječi kako bi se izbjegao problem uniformnosti generiranja slučajnih brojeva. Program koristi `RAND_bytes` funkciju koja vraća kriptografski sigurne brojeve. Za detalje korištenja programa **obavezno** pročitati README datoteku!

	1	2	3	4	5	6
1	~	!	#	\$	%	^
2	&	*	()	-	=
3	+	[]	\	{	}
4	:	;	"	'	<	>
5	?	/	0	1	2	3
6	4	5	6	7	8	9

Tablica 1 Specijalni znakovi. Treće bacanje određuje kolonu, a četvrto redak.

4 Literatura

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4. RFC 1750: Randomness Recommendations for Security.

5. Claude E. Shannon: A Mathematical Theory of Computation. <http://cm.bell-labs.com/cm/ms/what/shannonday/paper.html>
6. Entropy Gathering Daemon. <http://www.lothar.com/tech/crypto>
7. OpenSSL. <http://www.openssl.org>
8. <http://www.core-dump.com.hr/software/secpwgen-0.9.tar.gz>

5 Diceware lista riječi

Ukupan rječnik sadrži $6^5 = 7776$ riječi. Formatirane su po $2 \cdot 216 = 432$ riječi na jednoj stranici. U svakoj grupi od 216 riječi su prve dvije znamenke *iste*, što olakšava traženje.

11111 a	11211 absorb	11311 addle	11411 agave	11511 aj	11611 alice
11112 a&p	11212 abuse	11312 adele	11412 age	11512 ajar	11612 alien
11113 a's	11213 abut	11313 aden	11413 agee	11513 ajax	11613 alight
11114 aa	11214 abyss	11314 adept	11414 agenda	11514 ak	11614 align
11115 aaa	11215 ac	11315 adieu	11415 agent	11515 akers	11615 alike
11116 aaaa	11216 acadia	11316 adjust	11416 agile	11516 akin	11616 alive
11121 aaron	11221 accra	11321 adler	11421 aging	11521 akron	11621 all
11122 ab	11222 accrue	11322 admit	11422 agnes	11522 al	11622 allah
11123 aba	11223 ace	11323 admix	11423 agnew	11523 ala	11623 allan
11124 ababa	11224 acetic	11324 ado	11424 ago	11524 alai	11624 allay
11125 aback	11225 ache	11325 adobe	11425 agone	11525 alamo	11625 allen
11126 abase	11226 acid	11326 adonis	11426 agony	11526 alan	11626 alley
11131 abash	11231 acidic	11331 adopt	11431 agree	11531 alarm	11631 allied
11132 abate	11232 acm	11332 adore	11432 ague	11532 alaska	11632 allis
11133 abbas	11233 acme	11333 adorn	11433 agway	11533 alb	11633 allot
11134 abbe	11234 acorn	11334 adult	11434 ah	11534 alba	11634 allow
11135 abbey	11235 acre	11335 advent	11435 ahead	11535 album	11635 alloy
11136 abbot	11236 acrid	11336 advert	11436 ahem	11536 alcoa	11636 allure
11141 abbott	11241 act	11341 advise	11441 ahoy	11541 alden	11641 ally
11142 abc	11242 acton	11342 ae	11442 ai	11542 alder	11642 allyl
11143 abe	11243 actor	11343 aegis	11443 aid	11543 ale	11643 allyn
11144 abed	11244 acts	11344 aeneid	11444 aida	11544 alec	11644 alma
11145 abel	11245 acuity	11345 af	11445 aide	11545 aleck	11645 almost
11146 abet	11246 acute	11346 afar	11446 aides	11546 aleph	11646 aloe
11151 abide	11251 ad	11351 affair	11451 aiken	11551 alert	11651 aloft
11152 abject	11252 ada	11352 affine	11452 ail	11552 alex	11652 aloha
11153 ablaze	11253 adage	11353 affix	11453 aile	11553 alexei	11653 alone
11154 able	11254 adagio	11354 afire	11454 aim	11554 alga	11654 along
11155 abner	11255 adair	11355 afoot	11455 ain't	11555 algae	11655 aloof
11156 abo	11256 adam	11356 afraid	11456 ainu	11556 algal	11656 aloud
11161 abode	11261 adams	11361 africa	11461 air	11561 alger	11661 alp
11162 abort	11262 adapt	11362 afro	11462 aires	11562 algol	11662 alpha
11163 about	11263 add	11363 aft	11463 airman	11563 ali	11663 alps
11164 above	11264 added	11364 ag	11464 airway	11564 alia	11664 also
11165 abrade	11265 addict	11365 again	11465 airy	11565 alias	11665 alsop
11166 abram	11266 addis	11366 agate	11466 aisle	11566 alibi	11666 altair

12111 altar	12211 ample	12311 annoy	12411 aqua	12511 arrow	12611 at&t
12112 alter	12212 amply	12312 annul	12412 ar	12512 arson	12612 ate
12113 alto	12213 amra	12313 annuli	12413 arab	12513 art	12613 athens
12114 alton	12214 amulet	12314 annum	12414 araby	12514 artery	12614 atlas
12115 alum	12215 amuse	12315 anode	12415 arc	12515 arthur	12615 atom
12116 alumni	12216 amy	12316 ansi	12416 arcana	12516 artie	12616 atomic
12121 alva	12221 an	12321 answer	12421 arch	12521 arty	12621 atone
12122 alvin	12222 ana	12322 ant	12422 archer	12522 aruba	12622 atop
12123 alway	12223 and	12323 ante	12423 arden	12523 arum	12623 attic
12124 am	12224 andes	12324 anti	12424 ardent	12524 aryl	12624 attire
12125 ama	12225 andre	12325 antic	12425 are	12525 as	12625 au
12126 amass	12226 andrew	12326 anton	12426 area	12526 ascend	12626 aubrey
12131 amaze	12231 andy	12331 anus	12431 arena	12531 ash	12631 audio
12132 amber	12232 anent	12332 anvil	12432 ares	12532 ashen	12632 audit
12133 amble	12233 anew	12333 any	12433 argive	12533 asher	12633 aug
12134 ambush	12234 angel	12334 anyhow	12434 argo	12534 ashley	12634 auger
12135 amen	12235 angelo	12335 anyway	12435 argon	12535 ashy	12635 augur
12136 amend	12236 anger	12336 ao	12436 argot	12536 asia	12636 august
12141 ames	12241 angie	12341 aok	12441 argue	12541 aside	12641 auk
12142 ami	12242 angle	12342 aorta	12442 argus	12542 ask	12642 aunt
12143 amid	12243 anglo	12343 ap	12443 arhat	12543 askew	12643 aura
12144 amide	12244 angola	12344 apart	12444 arid	12544 asleep	12644 aural
12145 amigo	12245 angry	12345 apathy	12445 aries	12545 aspen	12645 auric
12146 amino	12246 angst	12346 ape	12446 arise	12546 aspire	12646 austin
12151 amiss	12251 angus	12351 apex	12451 ark	12551 ass	12651 auto
12152 amity	12252 ani	12352 aphid	12452 arlen	12552 assai	12652 autumn
12153 amman	12253 anion	12353 aplomb	12453 arlene	12553 assam	12653 av
12154 ammo	12254 anise	12354 appeal	12454 arm	12554 assay	12654 avail
12155 amoco	12255 anita	12355 append	12455 armco	12555 asset	12655 ave
12156 amok	12256 ankle	12356 apple	12456 army	12556 assort	12656 aver
12161 among	12261 ann	12361 apply	12461 arnold	12561 assure	12661 avert
12162 amort	12262 anna	12362 april	12462 aroma	12562 aster	12662 avery
12163 amos	12263 annal	12363 apron	12463 arose	12563 astm	12663 aviate
12164 amp	12264 anne	12364 apse	12464 arpa	12564 astor	12664 avid
12165 ampere	12265 annex	12365 apt	12465 array	12565 astral	12665 avis
12166 ampex	12266 annie	12366 aq	12466 arrear	12566 at	12666 aviv

13111	avoid	13211	bach	13311	bandit	13411	bass	13511	beady	13611	behind
13112	avon	13212	back	13312	bandy	13412	bassi	13512	beak	13612	beige
13113	avow	13213	backup	13313	bane	13413	basso	13513	beam	13613	being
13114	aw	13214	bacon	13314	bang	13414	baste	13514	bean	13614	beirut
13115	await	13215	bad	13315	banish	13415	bat	13515	bear	13615	bel
13116	awake	13216	bade	13316	banjo	13416	batch	13516	beard	13616	bela
13121	award	13221	baden	13321	bank	13421	bate	13521	beast	13621	belch
13122	aware	13222	badge	13322	banks	13422	bater	13522	beat	13622	belfry
13123	awash	13223	baffle	13323	bantu	13423	bates	13523	beau	13623	belie
13124	away	13224	bag	13324	bar	13424	bath	13524	beauty	13624	bell
13125	awe	13225	baggy	13325	barb	13425	bathe	13525	beaux	13625	bella
13126	awful	13226	bah	13326	bard	13426	batik	13526	bebop	13626	belle
13131	awl	13231	bahama	13331	bare	13431	baton	13531	becalm	13631	belly
13132	awn	13232	bail	13332	barfly	13432	bator	13532	beck	13632	below
13133	awoke	13233	baird	13333	barge	13433	batt	13533	becker	13633	belt
13134	awry	13234	bait	13334	bark	13434	bauble	13534	becky	13634	bema
13135	ax	13235	bake	13335	barley	13435	baud	13535	bed	13635	beman
13136	axe	13236	baku	13336	barn	13436	bauer	13536	bedim	13636	bemoan
13141	axes	13241	bald	13341	barnes	13441	bawd	13541	bee	13641	ben
13142	axial	13242	baldy	13342	baron	13442	bawdy	13542	beebe	13642	bench
13143	axiom	13243	bale	13343	barony	13443	bawl	13543	beech	13643	bend
13144	axis	13244	bali	13344	barr	13444	baxter	13544	beef	13644	bender
13145	axle	13245	balk	13345	barre	13445	bay	13545	beefy	13645	benny
13146	axon	13246	balkan	13346	barry	13446	bayda	13546	been	13646	bent
13151	ay	13251	balky	13351	barter	13451	bayed	13551	beep	13651	benz
13152	aye	13252	ball	13352	barth	13452	bayou	13552	beer	13652	berea
13153	ayers	13253	balled	13353	barton	13453	bazaar	13553	beet	13653	bereft
13154	az	13254	ballot	13354	basal	13454	bb	13554	befall	13654	beret
13155	aztec	13255	balm	13355	base	13455	bbb	13555	befit	13655	berg
13156	azure	13256	balmy	13356	basel	13456	bbbb	13556	befog	13656	berlin
13161	b	13261	balsa	13361	bash	13461	bc	13561	beg	13661	bern
13162	b's	13262	bam	13362	basic	13462	bcd	13562	began	13662	berne
13163	ba	13263	bambi	13363	basil	13463	bd	13563	beget	13663	bernet
13164	babe	13264	ban	13364	basin	13464	be	13564	beggar	13664	berra
13165	babel	13265	banal	13365	basis	13465	beach	13565	begin	13665	berry
13166	baby	13266	band	13366	bask	13466	bead	13566	begun	13666	bert

14111	berth	14211	biggs	14311	blake	14411	bloop	14511	bogy	14611	borax
14112	beryl	14212	bigot	14312	blame	14412	blot	14512	bohr	14612	border
14113	beset	14213	bile	14313	blanc	14413	blotch	14513	boil	14613	bore
14114	bess	14214	bilge	14314	bland	14414	blow	14514	bois	14614	borg
14115	bessel	14215	bilk	14315	blank	14415	blown	14515	boise	14615	boric
14116	best	14216	bill	14316	blare	14416	blue	14516	bold	14616	boris
14121	bestir	14221	billow	14321	blast	14421	bluet	14521	bole	14621	born
14122	bet	14222	billy	14322	blat	14422	bluff	14522	bolo	14622	borne
14123	beta	14223	bin	14323	blatz	14423	blum	14523	bolt	14623	borneo
14124	betel	14224	binary	14324	blaze	14424	blunt	14524	bomb	14624	boron
14125	beth	14225	bind	14325	bleak	14425	blur	14525	bombay	14625	bosch
14126	bethel	14226	bing	14326	bleat	14426	blurt	14526	bon	14626	bose
14131	betsy	14231	binge	14331	bled	14431	blush	14531	bona	14631	bosom
14132	bette	14232	bingle	14332	bleed	14432	blvd	14532	bond	14632	boson
14133	betty	14233	bini	14333	blend	14433	blythe	14533	bone	14633	boss
14134	bevel	14234	biota	14334	bless	14434	bm	14534	bong	14634	boston
14135	bevy	14235	birch	14335	blest	14435	bmw	14535	bongo	14635	botch
14136	beware	14236	bird	14336	blew	14436	bn	14536	bonn	14636	both
14141	bey	14241	birdie	14341	blimp	14441	bo	14541	bonus	14641	bottle
14142	bezel	14242	birth	14342	blind	14442	boa	14542	bony	14642	bough
14143	bf	14243	bison	14343	blink	14443	boar	14543	bonze	14643	bouncy
14144	bg	14244	bisque	14344	blinn	14444	board	14544	boo	14644	bound
14145	bh	14245	bit	14345	blip	14445	boast	14545	booby	14645	bourne
14146	bhoy	14246	bitch	14346	bliss	14446	boat	14546	boogie	14646	bout
14151	bi	14251	bite	14351	blithe	14451	bob	14551	book	14651	bovine
14152	bias	14252	bitt	14352	blitz	14452	bobbin	14552	booky	14652	bow
14153	bib	14253	bitten	14353	bloat	14453	bobby	14553	boom	14653	bowel
14154	bibb	14254	biz	14354	blob	14454	bobcat	14554	boon	14654	bowen
14155	bible	14255	bizet	14355	bloc	14455	boca	14555	boone	14655	bowie
14156	bicep	14256	bj	14356	bloch	14456	bock	14556	boor	14656	bowl
14161	biceps	14261	bk	14361	block	14461	bode	14561	boost	14661	box
14162	bid	14262	bl	14362	bloke	14462	body	14562	boot	14662	boxy
14163	biddy	14263	blab	14363	blond	14463	bog	14563	booth	14663	boy
14164	bide	14264	black	14364	blonde	14464	bogey	14564	booty	14664	boyar
14165	bien	14265	blade	14365	blood	14465	boggy	14565	booze	14665	boyce
14166	big	14266	blair	14366	bloom	14466	bogus	14566	bop	14666	boyd

15111 boyle	15211 brest	15311 bruno	15411 bun	15511 butane	15611 cacm
15112 bp	15212 brett	15312 brunt	15412 bunch	15512 butch	15612 cacti
15113 bq	15213 breve	15313 brush	15413 bundy	15513 buteo	15613 caddy
15114 br	15214 brew	15314 brute	15414 bunk	15514 butt	15614 cadent
15115 brace	15215 brian	15315 bryan	15415 bunny	15515 butte	15615 cadet
15116 bract	15216 briar	15316 bryant	15416 bunt	15516 butyl	15616 cadre
15121 brad	15221 bribe	15321 bryce	15421 bunyan	15521 buxom	15621 cady
15122 brady	15222 brice	15322 bryn	15422 buoy	15522 buy	15622 cafe
15123 brae	15223 brick	15323 bs	15423 burch	15523 buyer	15623 cage
15124 brag	15224 bride	15324 bstj	15424 bureau	15524 buzz	15624 cagey
15125 bragg	15225 brief	15325 bt	15425 buret	15525 buzzy	15625 cahill
15126 braid	15226 brig	15326 bt1	15426 burg	15526 bv	15626 caiman
15131 brain	15231 briggs	15331 bu	15431 buried	15531 bw	15631 cain
15132 brainy	15232 brim	15332 bub	15432 burke	15532 bx	15632 caine
15133 brake	15233 brine	15333 buck	15433 burl	15533 by	15633 cairn
15134 bran	15234 bring	15334 bud	15434 burly	15534 bye	15634 cairo
15135 brand	15235 brink	15335 budd	15435 burma	15535 byers	15635 cake
15136 brandt	15236 briny	15336 buddy	15436 burn	15536 bylaw	15636 cal
15141 brant	15241 brisk	15341 budge	15441 burnt	15541 byline	15641 calder
15142 brash	15242 broad	15342 buena	15442 burp	15542 byrd	15642 caleb
15143 brass	15243 brock	15343 buenos	15443 burr	15543 byrne	15643 calf
15144 brassy	15244 broil	15344 buff	15444 burro	15544 byron	15644 call
15145 braun	15245 broke	15345 bug	15445 burst	15545 byte	15645 calla
15146 brave	15246 broken	15346 buggy	15446 burt	15546 byway	15646 callus
15151 bravo	15251 bronx	15351 bugle	15451 burton	15551 byword	15651 calm
15152 brawl	15252 brood	15352 buick	15452 burtt	15552 bz	15652 calve
15153 bray	15253 brook	15353 build	15453 bury	15553 c	15653 cam
15154 bread	15254 brooke	15354 built	15454 bus	15554 c's	15654 camber
15155 break	15255 broom	15355 bulb	15455 busch	15555 ca	15655 came
15156 bream	15256 broth	15356 bulge	15456 bush	15556 cab	15656 camel
15161 breath	15261 brow	15361 bulk	15461 bushel	15561 cabal	15661 cameo
15162 bred	15262 brown	15362 bulky	15462 bushy	15562 cabin	15662 camp
15163 breed	15263 browse	15363 bull	15463 buss	15563 cable	15663 can
15164 breeze	15264 bruce	15364 bully	15464 bust	15564 cabot	15664 can't
15165 bremen	15265 bruit	15365 bum	15465 busy	15565 cacao	15665 canal
15166 brent	15266 brunch	15366 bump	15466 but	15566 cache	15666 canary

16111 cancer	16211 carrie	16311 cdc	16411 chart	16511 chirp	16611 circa
16112 candle	16212 carry	16312 ce	16412 chase	16512 chisel	16612 circe
16113 candy	16213 carson	16313 cease	16413 chasm	16513 chit	16613 cite
16114 cane	16214 cart	16314 cecil	16414 chaste	16514 chive	16614 citrus
16115 canis	16215 carte	16315 cedar	16415 chat	16515 chock	16615 city
16116 canna	16216 caruso	16316 cede	16416 chaw	16516 choir	16616 civet
16121 cannot	16221 carve	16321 ceil	16421 cheap	16521 choke	16621 civic
16122 canny	16222 case	16322 celia	16422 cheat	16522 chomp	16622 civil
16123 canoe	16223 casey	16323 cell	16423 check	16523 chop	16623 cj
16124 canon	16224 cash	16324 census	16424 cheek	16524 chopin	16624 ck
16125 canopy	16225 cashew	16325 cent	16425 cheeky	16525 choral	16625 cl
16126 cant	16226 cask	16326 ceres	16426 cheer	16526 chord	16626 clad
16131 canto	16231 casket	16331 cern	16431 chef	16531 chore	16631 claim
16132 canton	16232 cast	16332 cetera	16432 chen	16532 chose	16632 clam
16133 cap	16233 caste	16333 cetus	16433 chert	16533 chosen	16633 clammy
16134 cape	16234 cat	16334 cf	16434 cherub	16534 chou	16634 clamp
16135 caper	16235 catch	16335 cg	16435 chess	16535 chow	16635 clan
16136 capo	16236 cater	16336 ch	16436 chest	16536 chris	16636 clang
16141 car	16241 cathy	16341 chad	16441 chevy	16541 chub	16641 clank
16142 carbon	16242 catkin	16342 chafe	16442 chew	16542 chuck	16642 clap
16143 card	16243 catsup	16343 chaff	16443 chi	16543 chuff	16643 clara
16144 care	16244 cauchy	16344 chai	16444 chic	16544 chug	16644 clare
16145 caress	16245 caulk	16345 chain	16445 chick	16545 chum	16645 clark
16146 caret	16246 cause	16346 chair	16446 chide	16546 chump	16646 clarke
16151 carey	16251 cave	16351 chalk	16451 chief	16551 chunk	16651 clash
16152 cargo	16252 cavern	16352 champ	16452 child	16552 churn	16652 clasp
16153 carib	16253 cavil	16353 chance	16453 chile	16553 chute	16653 class
16154 carl	16254 cavort	16354 chang	16454 chili	16554 ci	16654 claus
16155 carla	16255 caw	16355 chant	16455 chill	16555 cia	16655 clause
16156 carlo	16256 cayuga	16356 chao	16456 chilly	16556 cicada	16656 claw
16161 carne	16261 cb	16361 chaos	16461 chime	16561 cider	16661 clay
16162 carob	16262 cbs	16362 chap	16462 chin	16562 cigar	16662 clean
16163 carol	16263 cc	16363 chapel	16463 china	16563 cilia	16663 clear
16164 carp	16264 ccc	16364 char	16464 chine	16564 cinch	16664 cleat
16165 carpet	16265 cccc	16365 chard	16465 chink	16565 cindy	16665 cleft
16166 carr	16266 cd	16366 charm	16466 chip	16566 cipher	16666 clerk

21111	cliche	21211	co	21311	colony	21411	corbel	21511	cowry	21611	creep
21112	click	21212	coach	21312	colt	21412	cord	21512	cox	21612	creole
21113	cliff	21213	coal	21313	colza	21413	core	21513	coy	21613	creon
21114	climb	21214	coast	21314	coma	21414	corey	21514	coyote	21614	crepe
21115	clime	21215	coat	21315	comb	21415	cork	21515	coypu	21615	crept
21116	cling	21216	coax	21316	combat	21416	corn	21516	cozen	21616	cress
21121	clink	21221	cobb	21321	come	21421	corny	21521	cozy	21621	crest
21122	clint	21222	cobble	21322	comet	21422	corp	21522	cp	21622	crete
21123	clio	21223	cobol	21323	cometh	21423	corps	21523	cpa	21623	crew
21124	clip	21224	cobra	21324	comic	21424	corvus	21524	cq	21624	crib
21125	clive	21225	coca	21325	comma	21425	cos	21525	cr	21625	cried
21126	cloak	21226	cock	21326	con	21426	cosec	21526	crab	21626	crime
21131	clock	21231	cockle	21331	conch	21431	coset	21531	crack	21631	crimp
21132	clod	21232	cocky	21332	cone	21432	cosh	21532	craft	21632	crisp
21133	clog	21233	coco	21333	coney	21433	cost	21533	crag	21633	criss
21134	clomp	21234	cocoa	21334	congo	21434	costa	21534	craig	21634	croak
21135	clone	21235	cod	21335	conic	21435	cosy	21535	cram	21635	crock
21136	close	21236	coda	21336	conn	21436	cot	21536	cramp	21636	crocus
21141	closet	21241	coddle	21341	conner	21441	cotta	21541	crane	21641	croft
21142	clot	21242	code	21342	conway	21442	cotty	21542	crank	21642	croix
21143	cloth	21243	codon	21343	cony	21443	couch	21543	crap	21643	crone
21144	cloud	21244	cody	21344	coo	21444	cough	21544	crash	21644	crony
21145	clout	21245	coed	21345	cook	21445	could	21545	crass	21645	crook
21146	clove	21246	cog	21346	cooke	21446	count	21546	crate	21646	croon
21151	clown	21251	cogent	21351	cooky	21451	coup	21551	crater	21651	croop
21152	cloy	21252	cohen	21352	cool	21452	coupe	21552	crave	21652	cross
21153	club	21253	cohn	21353	cooley	21453	court	21553	craw	21653	crow
21154	cluck	21254	coil	21354	coon	21454	cousin	21554	crawl	21654	crowd
21155	clue	21255	coin	21355	coop	21455	cove	21555	craze	21655	crown
21156	cluj	21256	coke	21356	coors	21456	coven	21556	crazy	21656	crt
21161	clump	21261	col	21361	coot	21461	cover	21561	creak	21661	crud
21162	clumsy	21262	cola	21362	cop	21462	covet	21562	cream	21662	crude
21163	clung	21263	colby	21363	cope	21463	cow	21563	credit	21663	cruel
21164	clyde	21264	cold	21364	copra	21464	cowan	21564	credo	21664	crumb
21165	cm	21265	cole	21365	copy	21465	cowl	21565	creed	21665	crump
21166	cn	21266	colon	21366	coral	21466	cowman	21566	creek	21666	crush

22111	crust	22211	curve	22311	dale	22411	davit	22511	decree	22611	dense
22112	crux	22212	cusps	22312	daley	22412	davy	22512	decry	22612	dent
22113	cruz	22213	cut	22313	dally	22413	dawn	22513	dee	22613	denton
22114	cry	22214	cute	22314	daly	22414	dawson	22514	deed	22614	deny
22115	crypt	22215	cutlet	22315	dam	22415	day	22515	deem	22615	depot
22116	cs	22216	cv	22316	dame	22416	daze	22516	deep	22616	depth
22121	ct	22221	cw	22321	damn	22421	db	22521	deer	22621	depute
22122	cu	22222	cx	22322	damon	22422	dc	22522	deere	22622	derby
22123	cub	22223	cy	22323	damp	22423	dd	22523	def	22623	derek
22124	cuba	22224	cycad	22324	damsel	22424	ddd	22524	defer	22624	des
22125	cube	22225	cycle	22325	dan	22425	dddd	22525	deform	22625	desist
22126	cubic	22226	cynic	22326	dana	22426	de	22526	deft	22626	desk
22131	cud	22231	cyril	22331	dance	22431	deacon	22531	defy	22631	detach
22132	cuddle	22232	cyrus	22332	dandy	22432	dead	22532	degas	22632	deter
22133	cue	22233	cyst	22333	dane	22433	deaf	22533	degum	22633	deuce
22134	cuff	22234	cz	22334	dang	22434	deal	22534	deify	22634	deus
22135	cull	22235	czar	22335	dank	22435	dealt	22535	deign	22635	devil
22136	culpa	22236	czech	22336	danny	22436	dean	22536	deity	22636	devoid
22141	cult	22241	d	22341	dante	22441	deane	22541	deja	22641	devon
22142	cumin	22242	d'art	22342	dar	22442	dear	22542	del	22642	dew
22143	cuny	22243	d's	22343	dare	22443	death	22543	delay	22643	dewar
22144	cup	22244	da	22344	dark	22444	debar	22544	delft	22644	dewey
22145	cupful	22245	dab	22345	darken	22445	debby	22545	delhi	22645	dewy
22146	cupid	22246	dacca	22346	darn	22446	debit	22546	delia	22646	dey
22151	cur	22251	dactyl	22351	darry	22451	debra	22551	dell	22651	df
22152	curb	22252	dad	22352	dart	22452	debris	22552	della	22652	dg
22153	curd	22253	dada	22353	dash	22453	debt	22553	delta	22653	dh
22154	cure	22254	daddy	22354	data	22454	debug	22554	delve	22654	dhabi
22155	curfew	22255	dade	22355	date	22455	debut	22555	demark	22655	di
22156	curia	22256	daffy	22356	dater	22456	dec	22556	demit	22656	dial
22161	curie	22261	dahl	22361	datum	22461	decal	22561	demon	22661	diana
22162	curio	22262	dahlia	22362	daub	22462	decay	22562	demur	22662	diane
22163	curl	22263	dairy	22363	daunt	22463	decca	22563	den	22663	diary
22164	curry	22264	dais	22364	dave	22464	deck	22564	deneb	22664	dibble
22165	curse	22265	daisy	22365	david	22465	decker	22565	denial	22665	dice
22166	curt	22266	dakar	22366	davis	22466	decor	22566	denny	22666	dick

23111 dicta	23211 ditch	23311 don	23411 draco	23511 drug	23611 dun
23112 did	23212 ditto	23312 don't	23412 draft	23512 druid	23612 dunce
23113 dido	23213 ditty	23313 done	23413 drag	23513 drum	23613 dune
23114 die	23214 diva	23314 doneck	23414 drain	23514 drunk	23614 dung
23115 died	23215 divan	23315 donna	23415 drake	23515 drury	23615 dunham
23116 diego	23216 dive	23316 donor	23416 dram	23516 dry	23616 dunk
23121 diem	23221 dixie	23321 doom	23421 drama	23521 dryad	23621 dunlop
23122 diesel	23222 dixon	23322 door	23422 drank	23522 ds	23622 dunn
23123 diet	23223 dizzy	23323 dope	23423 drape	23523 dt	23623 dupe
23124 diety	23224 dj	23324 dora	23424 draw	23524 du	23624 durer
23125 dietz	23225 dk	23325 doria	23425 drawl	23525 dual	23625 dusk
23126 dig	23226 dl	23326 doric	23426 drawn	23526 duane	23626 dusky
23131 digit	23231 dm	23331 doris	23431 dread	23531 dub	23631 dust
23132 dilate	23232 dn	23332 dose	23432 dream	23532 dubhe	23632 dusty
23133 dill	23233 dna	23333 dot	23433 dreamy	23533 dublin	23633 dutch
23134 dim	23234 do	23334 dote	23434 dreg	23534 ducat	23634 duty
23135 dime	23235 dobbs	23335 double	23435 dress	23535 duck	23635 dv
23136 din	23236 dobson	23336 doubt	23436 dressy	23536 duct	23636 dw
23141 dinah	23241 dock	23341 douce	23441 drew	23541 dud	23641 dwarf
23142 dine	23242 docket	23342 doug	23442 drib	23542 due	23642 dwell
23143 ding	23243 dod	23343 dough	23443 dried	23543 duel	23643 dwelt
23144 dingo	23244 dodd	23344 dour	23444 drier	23544 duet	23644 dwight
23145 dingy	23245 dodge	23345 douse	23445 drift	23545 duff	23645 dwyer
23146 dint	23246 dodo	23346 dove	23446 drill	23546 duffy	23646 dx
23151 diode	23251 doe	23351 dow	23451 drink	23551 dug	23651 dy
23152 dip	23252 doff	23352 dowel	23452 drip	23552 dугan	23652 dyad
23153 dirac	23253 dog	23353 down	23453 drive	23553 duke	23653 dye
23154 dire	23254 doge	23354 downs	23454 droll	23554 dull	23654 dyer
23155 dirge	23255 dogma	23355 dowry	23455 drone	23555 dully	23655 dying
23156 dirt	23256 dolan	23356 doyle	23456 drool	23556 dulse	23656 dyke
23161 dirty	23261 dolce	23361 doze	23461 droop	23561 duly	23661 dylan
23162 dis	23262 dole	23362 dozen	23462 drop	23562 duma	23662 dyne
23163 disc	23263 doll	23363 dp	23463 dross	23563 dumb	23663 dz
23164 dish	23264 dolly	23364 dq	23464 drove	23564 dummy	23664 e
23165 disk	23265 dolt	23365 dr	23465 drown	23565 dump	23665 e'er
23166 disney	23266 dome	23366 drab	23466 drub	23566 dumpy	23666 e's

24111 ea	24211 edith	24311 elbow	24411 emile	24511 eq	24611 eta
24112 each	24212 editor	24312 elder	24412 emily	24512 equal	24612 etc
24113 eagan	24213 edna	24313 eldon	24413 emit	24513 equip	24613 etch
24114 eager	24214 edt	24314 elect	24414 emma	24514 er	24614 ethan
24115 eagle	24215 edwin	24315 elegy	24415 emory	24515 era	24615 ethel
24116 ear	24216 ee	24316 elena	24416 empty	24516 erase	24616 ether
24121 earl	24221 eee	24321 eleven	24421 en	24521 erato	24621 ethic
24122 earn	24222 eeee	24322 elfin	24422 enact	24522 erda	24622 ethos
24123 earth	24223 eel	24323 elgin	24423 enamel	24523 ere	24623 ethyl
24124 ease	24224 eeoc	24324 eli	24424 end	24524 erect	24624 etude
24125 easel	24225 eerie	24325 elide	24425 endow	24525 erg	24625 eu
24126 east	24226 ef	24326 eliot	24426 enemy	24526 eric	24626 eucres
24131 easy	24231 efface	24331 elite	24431 eng	24531 erich	24631 euler
24132 eat	24232 effie	24332 elk	24432 engel	24532 erie	24632 eureka
24133 eaten	24233 efg	24333 ell	24433 engle	24533 erik	24633 ev
24134 eater	24234 eft	24334 ella	24434 engulf	24534 ernest	24634 eva
24135 eaton	24235 eg	24335 ellen	24435 enid	24535 ernie	24635 evade
24136 eave	24236 egan	24336 ellis	24436 enjoy	24536 ernst	24636 evans
24141 eb	24241 egg	24341 elm	24441 enmity	24541 erode	24641 eve
24142 ebb	24242 ego	24342 elmer	24442 enoch	24542 eros	24642 even
24143 eben	24243 egress	24343 elope	24443 enol	24543 err	24643 event
24144 ebony	24244 egret	24344 else	24444 enos	24544 errand	24644 every
24145 ec	24245 egypt	24345 elsie	24445 enrico	24545 errol	24645 evict
24146 echo	24246 eh	24346 elton	24446 ensue	24546 error	24646 evil
24151 eclat	24251 ei	24351 elude	24451 enter	24551 erupt	24651 evoke
24152 ecrole	24252 eider	24352 elute	24452 entrap	24552 erwin	24652 evolve
24153 ed	24253 eight	24353 elves	24453 entry	24553 erwin	24653 ew
24154 eddie	24254 eire	24354 ely	24454 envoy	24554 es	24654 ewe
24155 eddy	24255 ej	24355 em	24455 envy	24555 essay	24655 ewing
24156 eden	24256 eject	24356 embalm	24456 eo	24556 essen	24656 ex
24161 edgar	24261 ek	24361 embark	24461 ep	24561 essex	24661 exact
24162 edge	24262 eke	24362 embed	24462 epa	24562 est	24662 exalt
24163 edgy	24263 el	24363 ember	24463 epic	24563 ester	24663 exam
24164 edict	24264 elan	24364 emcee	24464 epoch	24564 estes	24664 excel
24165 edify	24265 elate	24365 emery	24465 epoxy	24565 estop	24665 excess
24166 edit	24266 elba	24366 Emil	24466 epsom	24566 et	24666 exert

25111 exile	25211 fair	25311 fd	25411 fff	25511 finite	25611 flatus
25112 exist	25212 fairy	25312 fda	25412 ffff	25512 fink	25612 flaw
25113 exit	25213 faith	25313 fe	25413 fg	25513 finn	25613 flax
25114 exodus	25214 fake	25314 fear	25414 fgh	25514 finny	25614 flea
25115 expel	25215 fall	25315 feast	25415 fh	25515 fir	25615 fleck
25116 extant	25216 false	25316 feat	25416 fi	25516 fire	25616 fled
25121 extent	25221 fame	25321 feb	25421 fiat	25521 firm	25621 flee
25122 extol	25222 fan	25322 fed	25422 fib	25522 first	25622 fleet
25123 extra	25223 fancy	25323 fee	25423 fibrin	25523 fish	25623 flesh
25124 exude	25224 fang	25324 feed	25424 fiche	25524 fishy	25624 flew
25125 exult	25225 fanny	25325 feel	25425 fide	25525 fisk	25625 flex
25126 Exxon	25226 fanout	25326 feet	25426 fief	25526 fiske	25626 flick
25131 ey	25231 far	25331 feign	25431 field	25531 fist	25631 flier
25132 eye	25232 farad	25332 feint	25432 fiend	25532 fit	25632 flinch
25133 eyed	25233 farce	25333 felice	25433 fiery	25533 fitch	25633 fling
25134 ez	25234 fare	25334 felix	25434 fife	25534 five	25634 flint
25135 ezra	25235 fargo	25335 fell	25435 fifo	25535 fix	25635 flip
25136 f	25236 farley	25336 felon	25436 fifth	25536 fj	25636 flirt
25141 f's	25241 farm	25341 felt	25441 fifty	25541 fjord	25641 flit
25142 fa	25242 faro	25342 femur	25442 fig	25542 fk	25642 flo
25143 faa	25243 fast	25343 fence	25443 fight	25543 fl	25643 float
25144 faber	25244 fat	25344 fend	25444 filch	25544 flack	25644 floc
25145 fable	25245 fatal	25345 fermi	25445 file	25545 flag	25645 flock
25146 face	25246 fate	25346 fern	25446 filet	25546 flail	25646 floe
25151 facet	25251 fatty	25351 ferric	25451 fill	25551 flair	25651 flog
25152 facile	25252 fault	25352 ferry	25452 filler	25552 flak	25652 flood
25153 fact	25253 faun	25353 fest	25453 filly	25553 flake	25653 floor
25154 facto	25254 fauna	25354 fetal	25454 film	25554 flaky	25654 flop
25155 fad	25255 faust	25355 fetch	25455 filmy	25555 flam	25655 floppy
25156 fade	25256 fawn	25356 fete	25456 filth	25556 flame	25656 flora
25161 faery	25261 fay	25361 fetid	25461 fin	25561 flank	25661 flour
25162 fag	25262 faze	25362 fetus	25462 final	25562 flap	25662 flout
25163 fahey	25263 fb	25363 feud	25463 finale	25563 flare	25663 flow
25164 fail	25264 fbi	25364 fever	25464 finch	25564 flash	25664 flown
25165 fain	25265 fc	25365 few	25465 find	25565 flask	25665 floyd
25166 faint	25266 fcc	25366 ff	25466 fine	25566 flat	25666 flu

26111 flub	26211 font	26311 frame	26411 froze	26511 fw	26611 gape
26112 flue	26212 food	26312 fran	26412 fruit	26512 fx	26612 gar
26113 fluff	26213 fool	26313 franc	26413 fry	26513 fy	26613 garb
26114 fluid	26214 foot	26314 franca	26414 frye	26514 fz	26614 garish
26115 fluke	26215 foote	26315 frank	26415 fs	26515 g	26615 garner
26116 flung	26216 fop	26316 franz	26416 ft	26516 g's	26616 garry
26121 flush	26221 for	26321 frau	26421 ftc	26521 ga	26621 garth
26122 flute	26222 foray	26322 fraud	26422 fu	26522 gab	26622 gary
26123 flux	26223 force	26323 fray	26423 fuchs	26523 gable	26623 gas
26124 fly	26224 ford	26324 freak	26424 fudge	26524 gabon	26624 gash
26125 flyer	26225 fore	26325 fred	26425 fuel	26525 gad	26625 gasp
26126 flynn	26226 forge	26326 free	26426 fugal	26526 gadget	26626 gassy
26131 fm	26231 forgot	26331 freed	26431 fugue	26531 gaff	26631 gate
26132 fmc	26232 fork	26332 freer	26432 fuji	26532 gaffe	26632 gates
26133 fn	26233 form	26333 frenzy	26433 full	26533 gag	26633 gator
26134 fo	26234 fort	26334 freon	26434 fully	26534 gage	26634 gauche
26135 foal	26235 forte	26335 fresh	26435 fum	26535 gail	26635 gaudy
26136 foam	26236 forth	26336 fret	26436 fume	26536 gain	26636 gauge
26141 foamy	26241 forty	26341 freud	26441 fun	26541 gait	26641 gaul
26142 fob	26242 forum	26342 frey	26442 fund	26542 gal	26642 gaunt
26143 focal	26243 foss	26343 freya	26443 fungal	26543 gala	26643 gaur
26144 foci	26244 fossil	26344 friar	26444 fungi	26544 galaxy	26644 gauss
26145 focus	26245 foul	26345 frick	26445 funk	26545 gale	26645 gauze
26146 fodder	26246 found	26346 fried	26446 funny	26546 galen	26646 gave
26151 foe	26251 fount	26351 frill	26451 fur	26551 gall	26651 gavel
26152 fog	26252 four	26352 frilly	26452 furl	26552 gallop	26652 gavin
26153 foggy	26253 fovea	26353 frisky	26453 furry	26553 galt	26653 gawk
26154 fogy	26254 fowl	26354 fritz	26454 fury	26554 gam	26654 gawky
26155 foil	26255 fox	26355 fro	26455 furze	26555 game	26655 gay
26156 foist	26256 foxy	26356 frock	26456 fuse	26556 gamin	26656 gaze
26161 fold	26261 foyer	26361 frog	26461 fuss	26561 gamma	26661 gb
26162 foley	26262 fp	26362 from	26462 fussy	26562 gamut	26662 gc
26163 folio	26263 fpc	26363 front	26463 fusty	26563 gander	26663 gd
26164 folk	26264 fq	26364 frost	26464 fuzz	26564 gang	26664 ge
26165 folly	26265 fr	26365 froth	26465 fuzzy	26565 gao	26665 gear
26166 fond	26266 frail	26366 frown	26466 fv	26566 gap	26666 gecko

31111	gee	31211	giddy	31311	glen	31411	gob	31511	gown	31611	gregg
31112	geese	31212	gift	31312	glenn	31412	goer	31512	gp	31612	greta
31113	geigy	31213	gig	31313	glib	31413	goes	31513	gpo	31613	grew
31114	gel	31214	gil	31314	glide	31414	goff	31514	gq	31614	grey
31115	geld	31215	gila	31315	glint	31415	gog	31515	gr	31615	grid
31116	gem	31216	gild	31316	gloat	31416	goggle	31516	grab	31616	grief
31121	gemma	31221	giles	31321	glob	31421	gogh	31521	grace	31621	grieve
31122	gene	31222	gill	31322	globe	31422	gogo	31522	grad	31622	grill
31123	genie	31223	gilt	31323	glom	31423	gold	31523	grade	31623	grim
31124	genii	31224	gimbal	31324	gloom	31424	golf	31524	grady	31624	grime
31125	genoa	31225	gimpy	31325	glory	31425	golly	31525	graff	31625	grimm
31126	genre	31226	gin	31326	gloss	31426	gone	31526	graft	31626	grin
31131	gent	31231	gina	31331	glove	31431	gong	31531	grail	31631	grind
31132	gentry	31232	ginn	31332	glow	31432	goo	31532	grain	31632	grip
31133	genus	31233	gino	31333	glue	31433	good	31533	grand	31633	gripe
31134	gerbil	31234	gird	31334	glued	31434	goode	31534	grant	31634	grist
31135	germ	31235	girl	31335	gluey	31435	goody	31535	grape	31635	grit
31136	gerry	31236	girth	31336	gluing	31436	goof	31536	graph	31636	groan
31141	get	31241	gist	31341	glum	31441	goofy	31541	grasp	31641	groat
31142	getty	31242	give	31342	glut	31442	goose	31542	grass	31642	groin
31143	gf	31243	given	31343	glyph	31443	gop	31543	grata	31643	groom
31144	gg	31244	gj	31344	gm	31444	gordon	31544	grate	31644	grope
31145	ggg	31245	gk	31345	gmt	31445	gore	31545	grater	31645	gross
31146	gggg	31246	gl	31346	gn	31446	goren	31546	grave	31646	groton
31151	gh	31251	glad	31351	gnarl	31451	gorge	31551	gravy	31651	group
31152	ghana	31252	gladdy	31352	gnash	31452	gorky	31552	gray	31652	grout
31153	ghent	31253	glade	31353	gnat	31453	gorse	31553	graze	31653	grove
31154	ghetto	31254	glamor	31354	gnaw	31454	gory	31554	great	31654	grow
31155	ghi	31255	gland	31355	gnome	31455	gosh	31555	grebe	31655	growl
31156	ghost	31256	glans	31356	gnp	31456	gospel	31556	greed	31656	grown
31161	ghoul	31261	glare	31361	gnu	31461	got	31561	greedy	31661	grub
31162	gi	31262	glass	31362	go	31462	gouda	31562	greek	31662	gruff
31163	giant	31263	glaze	31363	goa	31463	gouge	31563	green	31663	grunt
31164	gibbs	31264	gleam	31364	goad	31464	gould	31564	greer	31664	gs
31165	gibby	31265	glean	31365	goal	31465	gourd	31565	greet	31665	gsa
31166	gibe	31266	glee	31366	goat	31466	gout	31566	greg	31666	gt

32111	gu	32211	gw	32311	halma	32411	haste	32511	heart	32611	herd
32112	guam	32212	gwen	32312	halo	32412	hasty	32512	heat	32612	here
32113	guano	32213	gwyn	32313	halt	32413	hat	32513	heath	32613	hero
32114	guard	32214	gx	32314	halvah	32414	hatch	32514	heave	32614	heroic
32115	guess	32215	gy	32315	halve	32415	hate	32515	heavy	32615	heron
32116	guest	32216	gym	32316	ham	32416	hater	32516	hebe	32616	herr
32121	guide	32221	gyp	32321	hamal	32421	hath	32521	hebrew	32621	hertz
32122	guild	32222	gypsy	32322	hamlin	32422	hatred	32522	heck	32622	hess
32123	guile	32223	gyro	32323	han	32423	haul	32523	heckle	32623	hesse
32124	guilt	32224	gz	32324	hand	32424	haunt	32524	hedge	32624	hettie
32125	guise	32225	h	32325	handy	32425	have	32525	heed	32625	hetty
32126	guitar	32226	h's	32326	haney	32426	haven	32526	heel	32626	hew
32131	gules	32231	ha	32331	hang	32431	havoc	32531	heft	32631	hewitt
32132	gulf	32232	haag	32332	hank	32432	haw	32532	hefty	32632	hewn
32133	gull	32233	haas	32333	hanna	32433	hawk	32533	heigh	32633	hex
32134	gully	32234	habib	32334	hanoi	32434	hay	32534	heine	32634	hey
32135	gulp	32235	habit	32335	hans	32435	haydn	32535	heinz	32635	hf
32136	gum	32236	hack	32336	hansel	32436	hayes	32536	heir	32636	hg
32141	gumbo	32241	had	32341	hap	32441	hays	32541	held	32641	hh
32142	gummy	32242	hades	32342	happy	32442	hazard	32542	helen	32642	hhh
32143	gun	32243	hadron	32343	hard	32443	haze	32543	helga	32643	hhh
32144	gunk	32244	hagen	32344	hardy	32444	hazel	32544	helix	32644	hi
32145	gunky	32245	hager	32345	hare	32445	hazy	32545	hell	32645	hiatt
32146	gunny	32246	hague	32346	harem	32446	hb	32546	hello	32646	hick
32151	gurgle	32251	hahn	32351	hark	32451	hc	32551	helm	32651	hicks
32152	guru	32252	haifa	32352	harley	32452	hd	32552	helmut	32652	hid
32153	gus	32253	haiku	32353	harm	32453	he	32553	help	32653	hide
32154	gush	32254	hail	32354	harp	32454	he'd	32554	hem	32654	high
32155	gust	32255	hair	32355	harpy	32455	he'll	32555	hemp	32655	hij
32156	gusto	32256	hairy	32356	harry	32456	head	32556	hen	32656	hike
32161	gusty	32261	haiti	32361	harsh	32461	heady	32561	hence	32661	hill
32162	gut	32262	hal	32362	hart	32462	heal	32562	henri	32662	hilly
32163	gutsy	32263	hale	32363	harvey	32463	healy	32563	henry	32663	hilt
32164	guy	32264	haley	32364	hash	32464	heap	32564	her	32664	hilum
32165	guyana	32265	half	32365	hasp	32465	hear	32565	hera	32665	him
32166	gv	32266	hall	32366	hast	32466	heard	32566	herb	32666	hind

33111 hindu	33211 hoi	33311 hough	33411 human	33511 i'd	33611 ig
33112 hines	33212 hokan	33312 hound	33412 humid	33512 i'll	33612 igloo
33113 hinge	33213 hold	33313 hour	33413 hump	33513 i'm	33613 igor
33114 hint	33214 holdup	33314 house	33414 humus	33514 i's	33614 ih
33115 hip	33215 hole	33315 hove	33415 hun	33515 i've	33615 ii
33116 hippo	33216 holly	33316 hovel	33416 hunch	33516 ia	33616 iii
33121 hippy	33221 holm	33321 hover	33421 hung	33521 iambic	33621 iiii
33122 hiram	33222 holst	33322 how	33422 hunk	33522 ian	33622 ij
33123 hire	33223 holt	33323 howdy	33423 hunt	33523 ib	33623 ijk
33124 hirsch	33224 home	33324 howe	33424 hurd	33524 ibex	33624 ik
33125 his	33225 homo	33325 howl	33425 hurl	33525 ibid	33625 ike
33126 hiss	33226 honda	33326 hoy	33426 huron	33526 ibis	33626 il
33131 hit	33231 hondo	33331 hoyt	33431 hurrah	33531 ibm	33631 ileum
33132 hitch	33232 hone	33332 hp	33432 hurry	33532 ibn	33632 iliac
33133 hive	33233 honey	33333 hq	33433 hurst	33533 ic	33633 iliad
33134 hj	33234 hong	33334 hr	33434 hurt	33534 icc	33634 ill
33135 hk	33235 honk	33335 hs	33435 hurty	33535 ice	33635 illume
33136 hl	33236 hooch	33336 ht	33436 hush	33536 icing	33636 ilona
33141 hm	33241 hood	33341 hu	33441 husky	33541 icky	33641 im
33142 hn	33242 hoof	33342 hub	33442 hut	33542 icon	33642 image
33143 ho	33243 hook	33343 hubbub	33443 hutch	33543 icy	33643 imbue
33144 hoagy	33244 hookup	33344 hubby	33444 hv	33544 id	33644 imp
33145 hoar	33245 hoop	33345 huber	33445 hw	33545 ida	33645 impel
33146 hoard	33246 hoot	33346 huck	33446 hx	33546 idaho	33646 import
33151 hob	33251 hop	33351 hue	33451 hy	33551 idea	33651 impute
33152 hobbs	33252 hope	33352 hued	33452 hyde	33552 ideal	33652 in
33153 hobby	33253 horde	33353 huff	33453 hydra	33553 idiom	33653 inane
33154 hobo	33254 horn	33354 hug	33454 hydro	33554 idiot	33654 inapt
33155 hoc	33255 horny	33355 huge	33455 hyena	33555 idle	33655 inc
33156 hock	33256 horse	33356 hugh	33456 hying	33556 idol	33656 inca
33161 hodge	33261 horus	33361 hughes	33461 hyman	33561 idyll	33661 incest
33162 hodges	33262 hose	33362 hugo	33462 hymen	33562 ie	33662 inch
33163 hoe	33263 host	33363 huh	33463 hymn	33563 ieee	33663 incur
33164 hoff	33264 hot	33364 hulk	33464 hymnal	33564 if	33664 index
33165 hog	33265 hotbox	33365 hull	33465 hz	33565 iffy	33665 india
33166 hogan	33266 hotel	33366 hum	33466 i	33566 ifni	33666 indies

34111 indy	34211 iran	34311 ivan	34411 jazzy	34511 jimmy	34611 jostle
34112 inept	34212 iraq	34312 ive	34412 jb	34512 jinx	34612 jot
34113 inert	34213 irate	34313 ivory	34413 jc	34513 jive	34613 joule
34114 infect	34214 ire	34314 ivy	34414 jd	34514 jj	34614 joust
34115 infer	34215 irene	34315 iw	34415 je	34515 jjj	34615 jove
34116 infima	34216 iris	34316 ix	34416 jean	34516 jjjj	34616 jowl
34121 infix	34221 irish	34321 iy	34421 jed	34521 jk	34621 jowly
34122 infra	34222 irk	34322 iz	34422 jeep	34522 jkl	34622 joy
34123 ingot	34223 irma	34323 j	34423 jeff	34523 jl	34623 joyce
34124 inhere	34224 iron	34324 j's	34424 jejune	34524 jm	34624 jp
34125 injun	34225 irony	34325 ja	34425 jelly	34525 jn	34625 jq
34126 ink	34226 irs	34326 jab	34426 jenny	34526 jo	34626 jr
34131 inlay	34231 irvin	34331 jack	34431 jeres	34531 joan	34631 js
34132 inlet	34232 irwin	34332 jacky	34432 jerk	34532 job	34632 jt
34133 inman	34233 is	34333 jacm	34433 jerky	34533 jock	34633 ju
34134 inn	34234 isaac	34334 jacob	34434 jerry	34534 jockey	34634 juan
34135 inner	34235 isabel	34335 jacobi	34435 jersey	34535 joe	34635 judas
34136 input	34236 ising	34336 jade	34436 jess	34536 joel	34636 judd
34141 insect	34241 isis	34341 jag	34441 jesse	34541 joey	34641 jude
34142 inset	34242 islam	34342 jail	34442 jest	34542 jog	34642 judge
34143 insult	34243 island	34343 jaime	34443 jesus	34543 john	34643 judo
34144 intend	34244 isle	34344 jake	34444 jet	34544 johns	34644 judy
34145 inter	34245 isn't	34345 jam	34445 jew	34545 join	34645 jug
34146 into	34246 israel	34346 james	34446 jewel	34546 joint	34646 juggle
34151 inure	34251 issue	34351 jan	34451 jewett	34551 joke	34651 juice
34152 invoke	34252 it	34352 jane	34452 jewish	34552 jolla	34652 juicy
34153 io	34253 it&t	34353 janet	34453 jf	34553 jolly	34653 juju
34154 ion	34254 it'd	34354 janos	34454 jg	34554 jolt	34654 juke
34155 ionic	34255 it'll	34355 janus	34455 jh	34555 jon	34655 jukes
34156 iota	34256 italy	34356 japan	34456 ji	34556 jonas	34656 julep
34161 iowa	34261 itch	34361 jar	34461 jibe	34561 jones	34661 jules
34162 ip	34262 item	34362 jason	34462 jiffy	34562 jorge	34662 julia
34163 ipso	34263 ito	34363 java	34463 jig	34563 jose	34663 julie
34164 iq	34264 itt	34364 jaw	34464 jill	34564 josef	34664 julio
34165 ir	34265 iu	34365 jay	34465 jilt	34565 joshua	34665 july
34166 ira	34266 iv	34366 jazz	34466 jim	34566 joss	34666 jumbo

35111	jump	35211	karma	35311	key	35411	kj	35511	kodak	35611	labia
35112	jumpy	35212	karol	35312	keyed	35412	kk	35512	kola	35612	labile
35113	junco	35213	karp	35313	keyes	35413	kkk	35513	kombu	35613	lac
35114	june	35214	kate	35314	keys	35414	kkkk	35514	kong	35614	lace
35115	junk	35215	kathy	35315	kf	35415	kl	35515	koran	35615	lack
35116	junky	35216	katie	35316	kg	35416	klan	35516	korea	35616	lacy
35121	juno	35221	katz	35321	kh	35421	klaus	35521	kp	35621	lad
35122	junta	35222	kava	35322	khaki	35422	klein	35522	kq	35622	laden
35123	jura	35223	kay	35323	khan	35423	kline	35523	kr	35623	ladle
35124	jure	35224	kayo	35324	khmer	35424	klm	35524	kraft	35624	lady
35125	juror	35225	kazoo	35325	ki	35425	klux	35525	krause	35625	lag
35126	jury	35226	kb	35326	kick	35426	km	35526	kraut	35626	lager
35131	just	35231	kc	35331	kid	35431	kn	35531	krebs	35631	lagoon
35132	jut	35232	kd	35332	kidde	35432	knack	35532	kruse	35632	lagos
35133	jute	35233	ke	35333	kidney	35433	knapp	35533	ks	35633	laid
35134	jv	35234	keats	35334	kiev	35434	knauer	35534	kt	35634	lain
35135	jw	35235	keel	35335	kigali	35435	knead	35535	ku	35635	lair
35136	jx	35236	keen	35336	kill	35436	knee	35536	kudo	35636	laity
35141	jy	35241	keep	35341	kim	35441	kneel	35541	kudzu	35641	lake
35142	jz	35242	keg	35342	kin	35442	knelt	35542	kuhn	35642	lam
35143	k	35243	keith	35343	kind	35443	knew	35543	kulak	35643	lamar
35144	k's	35244	keller	35344	king	35444	knick	35544	kurd	35644	lamb
35145	ka	35245	kelly	35345	kink	35445	knife	35545	kurt	35645	lame
35146	kabul	35246	kelp	35346	kinky	35446	knit	35546	kv	35646	lamp
35151	kafka	35251	kemp	35351	kiosk	35451	knob	35551	kw	35651	lana
35152	kahn	35252	ken	35352	kiowa	35452	knock	35552	kx	35652	lance
35153	kajar	35253	keno	35353	kirby	35453	knoll	35553	ky	35653	land
35154	kale	35254	kent	35354	kirk	35454	knot	35554	kyle	35654	lane
35155	kalmia	35255	kenya	35355	kirov	35455	knott	35555	kyoto	35655	lang
35156	kane	35256	kepler	35356	kiss	35456	know	35556	kz	35656	lange
35161	kant	35261	kept	35361	kit	35461	known	35561	l	35661	lanka
35162	kapok	35262	kern	35362	kite	35462	knox	35562	l's	35662	lanky
35163	kappa	35263	kerr	35363	kitty	35463	knurl	35563	la	35663	lao
35164	karate	35264	kerry	35364	kiva	35464	ko	35564	lab	35664	laos
35165	karen	35265	ketch	35365	kivu	35465	koala	35565	laban	35665	lap
35166	karl	35266	kevin	35366	kiwi	35466	koch	35566	label	35666	lapel

36111	lapse	36211	laze	36311	legion	36411	lf	36511	line	36611	loam
36112	larch	36212	lazy	36312	leigh	36412	lg	36512	linen	36612	loamy
36113	lard	36213	lb	36313	leila	36413	lh	36513	lingo	36613	loan
36114	lares	36214	lc	36314	leland	36414	li	36514	link	36614	loath
36115	large	36215	ld	36315	lemma	36415	liar	36515	lint	36615	lob
36116	lark	36216	le	36316	lemon	36416	libel	36516	linus	36616	lobar
36121	larkin	36221	lea	36321	len	36421	libido	36521	lion	36621	lobby
36122	larry	36222	leach	36322	lena	36422	libya	36522	lip	36622	lobe
36123	lars	36223	lead	36323	lend	36423	lice	36523	lipid	36623	lobo
36124	larva	36224	leaf	36324	lenin	36424	lick	36524	lisa	36624	local
36125	lase	36225	leafy	36325	lenny	36425	lid	36525	lise	36625	loci
36126	lash	36226	leak	36326	lens	36426	lie	36526	lisle	36626	lock
36131	lass	36231	leaky	36331	lent	36431	lied	36531	lisp	36631	locke
36132	lasso	36232	lean	36332	leo	36432	lien	36532	list	36632	locus
36133	last	36233	leap	36333	leon	36433	lieu	36533	listen	36633	lodge
36134	latch	36234	leapt	36334	leona	36434	life	36534	lit	36634	loeb
36135	late	36235	lear	36335	leone	36435	lifo	36535	lithe	36635	loess
36136	later	36236	learn	36336	leper	36436	lift	36536	litton	36636	loft
36141	latest	36241	lease	36341	leroy	36441	light	36541	live	36641	lofty
36142	latex	36242	leash	36342	less	36442	like	36542	liven	36642	log
36143	lath	36243	least	36343	lessee	36443	liken	36543	livid	36643	logan
36144	lathe	36244	leave	36344	lest	36444	lila	36544	livre	36644	loge
36145	latin	36245	led	36345	let	36445	lilac	36545	liz	36645	logic
36146	latus	36246	ledge	36346	lethe	36446	lilly	36546	lizzie	36646	loin
36151	laud	36251	lee	36351	lev	36451	lilt	36551	lj	36651	loire
36152	laue	36252	leech	36352	levee	36452	lily	36552	lk	36652	lois
36153	laugh	36253	leeds	36353	level	36453	lima	36553	ll	36653	loiter
36154	launch	36254	leek	36354	lever	36454	limb	36554	lll	36654	loki
36155	laura	36255	leer	36355	levi	36455	limbo	36555	llll	36655	lola
36156	lava	36256	leery	36356	levin	36456	lime	36556	lloyd	36656	loll
36161	law	36261	leeway	36361	levis	36461	limit	36561	lm	36661	lolly
36162	lawn	36262	left	36362	levy	36462	limp	36562	lmn	36662	lomb
36163	lawson	36263	lefty	36363	lew	36463	lin	36563	ln	36663	lome
36164	lax	36264	leg	36364	lewd	36464	lind	36564	lo	36664	lone
36165	lay	36265	legal	36365	lewis	36465	linda	36565	load	36665	long
36166	layup	36266	leggy	36366	leyden	36466	linden	36566	loaf	36666	look

41111 loom	41211 ls	41311 lute	41411 macro	41511 manic	41611 maser
41112 loon	41212 lsi	41312 lutz	41412 mad	41512 mann	41612 mash
41113 loop	41213 lt	41313 lux	41413 madam	41513 manna	41613 mask
41114 loose	41214 ltv	41314 luxe	41414 made	41514 manor	41614 mason
41115 loot	41215 lu	41315 luzon	41415 madman	41515 mans	41615 masque
41116 lop	41216 lucas	41316 lv	41416 madsen	41516 manse	41616 mass
41121 lope	41221 lucia	41321 lw	41421 mae	41521 mantle	41621 mast
41122 lopez	41222 lucid	41322 lx	41422 magi	41522 many	41622 mat
41123 lord	41223 luck	41323 ly	41423 magic	41523 mao	41623 match
41124 lore	41224 lucky	41324 lydia	41424 magma	41524 maori	41624 mate
41125 loren	41225 lucre	41325 lye	41425 magna	41525 map	41625 mateo
41126 los	41226 lucy	41326 lying	41426 magog	41526 maple	41626 mater
41131 lose	41231 lug	41331 lykes	41431 maid	41531 mar	41631 math
41132 loss	41232 luge	41332 lyle	41432 maier	41532 marc	41632 matte
41133 lossy	41233 luger	41333 lyman	41433 mail	41533 march	41633 maul
41134 lost	41234 luis	41334 lymph	41434 maim	41534 marco	41634 mauve
41135 lot	41235 luke	41335 lynch	41435 main	41535 marcy	41635 mavis
41136 lotte	41236 lull	41336 lynn	41436 maine	41536 mardi	41636 maw
41141 lotus	41241 lulu	41341 lynx	41441 major	41541 mare	41641 mawr
41142 lou	41242 lumbar	41342 lyon	41442 make	41542 margo	41642 max
41143 loud	41243 lumen	41343 lyons	41443 malady	41543 maria	41643 maxim
41144 louis	41244 lump	41344 lyra	41444 malay	41544 marie	41644 maxima
41145 louise	41245 lumpy	41345 lyric	41445 male	41545 marin	41645 may
41146 louse	41246 lunar	41346 lz	41446 mali	41546 marine	41646 maya
41151 lousy	41251 lunch	41351 m	41451 mall	41551 mario	41651 maybe
41152 louver	41252 lund	41352 m&m	41452 malt	41552 mark	41652 mayer
41153 love	41253 lung	41353 m's	41453 malta	41553 marks	41653 mayhem
41154 low	41254 lunge	41354 ma	41454 mambo	41554 marlin	41654 mayo
41155 lowe	41255 lura	41355 mabel	41455 mamma	41555 marrow	41655 mayor
41156 lower	41256 lurch	41356 mac	41456 mammal	41556 marry	41656 mayst
41161 lowry	41261 lure	41361 mace	41461 man	41561 mars	41661 mazda
41162 loy	41262 lurid	41362 mach	41462 mana	41562 marsh	41662 maze
41163 loyal	41263 lurk	41363 macho	41463 manama	41563 mart	41663 mb
41164 lp	41264 lush	41364 mack	41464 mane	41564 marty	41664 mba
41165 lq	41265 lust	41365 mackey	41465 mange	41565 marx	41665 mc
41166 lr	41266 lusty	41366 macon	41466 mania	41566 mary	41666 mccoey

42111 mcgee	42211 menlo	42311 midge	42411 mire	42511 mohr	42611 more
42112 mckay	42212 menu	42312 midst	42412 mirth	42512 moire	42612 morel
42113 mckee	42213 merck	42313 mien	42413 miser	42513 moist	42613 morn
42114 mcleod	42214 mercy	42314 miff	42414 misery	42514 molal	42614 moron
42115 md	42215 mere	42315 mig	42415 miss	42515 molar	42615 morse
42116 me	42216 merge	42316 might	42416 missy	42516 mold	42616 morsel
42121 mead	42221 merit	42321 mike	42421 mist	42521 mole	42621 mort
42122 meal	42222 merle	42322 mila	42422 misty	42522 moll	42622 mosaic
42123 mealy	42223 merry	42323 milan	42423 mit	42523 mollie	42623 moser
42124 mean	42224 mesa	42324 milch	42424 mite	42524 molly	42624 moses
42125 meant	42225 mescal	42325 mild	42425 mitre	42525 molt	42625 moss
42126 meat	42226 mesh	42326 mil dew	42426 mitt	42526 molten	42626 mossy
42131 meaty	42231 meson	42331 mile	42431 mix	42531 mommy	42631 most
42132 mecca	42232 mess	42332 miles	42432 mixup	42532 mona	42632 mot
42133 mecum	42233 messy	42333 milk	42433 mizar	42533 monad	42633 motel
42134 medal	42234 met	42334 milky	42434 mj	42534 mondo	42634 motet
42135 medea	42235 metal	42335 mill	42435 nk	42535 monel	42635 moth
42136 media	42236 mete	42336 mills	42436 ml	42536 money	42636 mother
42141 medic	42241 meter	42341 milt	42441 mm	42541 monic	42641 motif
42142 medley	42242 metro	42342 mimi	42442 mmm	42542 monk	42642 motor
42143 meek	42243 mew	42343 mimic	42443 mmmm	42543 mont	42643 motto
42144 meet	42244 meyer	42344 mince	42444 mn	42544 monte	42644 mould
42145 meg	42245 meyers	42345 mind	42445 mno	42545 month	42645 mound
42146 mega	42246 mezzo	42346 mine	42446 mo	42546 monty	42646 mount
42151 meier	42251 mf	42351 mini	42451 moan	42551 moo	42651 mourn
42152 meir	42252 mg	42352 minim	42452 moat	42552 mood	42652 mouse
42153 mel	42253 mh	42353 mink	42453 mob	42553 moody	42653 mousy
42154 meld	42254 mi	42354 minnow	42454 mobil	42554 moon	42654 mouth
42155 melee	42255 miami	42355 minor	42455 mock	42555 moor	42655 move
42156 mellow	42256 mica	42356 minos	42456 modal	42556 moore	42656 movie
42161 melon	42261 mice	42361 minot	42461 mode	42561 moose	42661 mow
42162 melt	42262 mickey	42362 minsk	42462 model	42562 moot	42662 moyer
42163 memo	42263 micky	42363 mint	42463 modem	42563 mop	42663 mp
42164 memoir	42264 micro	42364 minus	42464 modish	42564 moral	42664 mph
42165 men	42265 mid	42365 mira	42465 moe	42565 morale	42665 mq
42166 mend	42266 midas	42366 mirage	42466 moen	42566 moran	42666 mr

43111	mrs	43211	music	43311	naive	43411	neck	43511	niece	43611	noise
43112	ms	43212	musk	43312	naked	43412	ned	43512	niger	43612	noisy
43113	mt	43213	muslim	43313	name	43413	nee	43513	nigh	43613	nolan
43114	mu	43214	must	43314	nan	43414	need	43514	night	43614	noll
43115	much	43215	musty	43315	nancy	43415	needy	43515	nih	43615	nolo
43116	muck	43216	mute	43316	naomi	43416	neff	43516	nikko	43616	nomad
43121	mucus	43221	mutt	43321	nap	43421	negate	43521	nil	43621	non
43122	mud	43222	muzak	43322	nary	43422	negro	43522	nile	43622	nonce
43123	mudd	43223	muzo	43323	nasa	43423	nehru	43523	nimbus	43623	none
43124	muddy	43224	mv	43324	nasal	43424	neil	43524	nimh	43624	nook
43125	muff	43225	mw	43325	nash	43425	nell	43525	nina	43625	noon
43126	muffin	43226	mx	43326	nasty	43426	nelsen	43526	nine	43626	noose
43131	mug	43231	my	43331	nat	43431	neon	43531	ninth	43631	nop
43132	muggy	43232	myel	43332	natal	43432	nepal	43532	niobe	43632	nor
43133	mugho	43233	myers	43333	nate	43433	nero	43533	nip	43633	nora
43134	muir	43234	mylar	43334	nato	43434	nerve	43534	nit	43634	norm
43135	mulch	43235	mynah	43335	natty	43435	ness	43535	nitric	43635	norma
43136	mulct	43236	myopia	43336	nature	43436	nest	43536	nitty	43636	north
43141	mule	43241	myra	43341	naval	43441	net	43541	nixon	43641	norway
43142	mull	43242	myron	43342	nave	43442	neuron	43542	nj	43642	nose
43143	multi	43243	myrrh	43343	navel	43443	neva	43543	nk	43643	not
43144	mum	43244	myself	43344	navy	43444	neve	43544	nl	43644	notch
43145	mummy	43245	myth	43345	nay	43445	new	43545	nm	43645	note
43146	munch	43246	mz	43346	nazi	43446	newel	43546	nn	43646	notre
43151	mung	43251	n	43351	nb	43451	newt	43551	nnn	43651	noun
43152	munson	43252	n's	43352	nbc	43452	next	43552	nnnn	43652	nov
43153	muon	43253	na	43353	nbs	43453	nf	43553	no	43653	nova
43154	muong	43254	naacp	43354	nc	43454	ng	43554	noaa	43654	novak
43155	mural	43255	nab	43355	naaa	43455	nh	43555	noah	43655	novel
43156	muriel	43256	nadir	43356	ncr	43456	ni	43556	nob	43656	ново
43161	murk	43261	nag	43361	nd	43461	nib	43561	nobel	43661	now
43162	murky	43262	nagoya	43362	ne	43462	nibs	43562	noble	43662	np
43163	murre	43263	nagy	43363	neal	43463	nice	43563	nod	43663	nq
43164	muse	43264	naiad	43364	near	43464	nicety	43564	nodal	43664	nr
43165	mush	43265	nail	43365	neat	43465	niche	43565	node	43665	nrc
43166	mushy	43266	nair	43366	neath	43466	nick	43566	noel	43666	ns

44111	nsf	44211	ob	44311	oint	44411	opal	44511	otto	44611	p
44112	nt	44212	obese	44312	oj	44412	opec	44512	ou	44612	p's
44113	ntis	44213	obey	44313	ok	44413	opel	44513	ouch	44613	pa
44114	nu	44214	objet	44314	okay	44414	open	44514	ought	44614	pablo
44115	nuance	44215	oboe	44315	ol	44415	opera	44515	ounce	44615	pabst
44116	nubia	44216	oc	44316	olaf	44416	opium	44516	our	44616	pace
44121	nuclei	44221	occur	44321	olav	44421	opt	44521	oust	44621	pack
44122	nude	44222	ocean	44322	old	44422	optic	44522	out	44622	packet
44123	nudge	44223	oct	44323	olden	44423	opus	44523	ouvre	44623	pact
44124	null	44224	octal	44324	oldy	44424	oq	44524	ouzel	44624	pad
44125	numb	44225	octave	44325	olga	44425	or	44525	ouzo	44625	paddy
44126	nun	44226	octet	44326	olin	44426	oral	44526	ov	44626	padre
44131	nurse	44231	od	44331	olive	44431	orate	44531	ova	44631	paeon
44132	nut	44232	odd	44332	olsen	44432	orb	44532	oval	44632	pagan
44133	nv	44233	ode	44333	olson	44433	orbit	44533	ovary	44633	page
44134	nw	44234	odin	44334	om	44434	orchid	44534	ovate	44634	paid
44135	nx	44235	odium	44335	omaha	44435	ordain	44535	oven	44635	pail
44136	ny	44236	oe	44336	oman	44436	order	44536	over	44636	pain
44141	nyc	44241	of	44341	omega	44441	ore	44541	overt	44641	paine
44142	nylon	44242	off	44342	omen	44442	organ	44542	ovid	44642	paint
44143	nymph	44243	offal	44343	omit	44443	orgy	44543	ow	44643	pair
44144	nyu	44244	offend	44344	on	44444	orin	44544	owe	44644	pal
44145	nz	44245	offer	44345	once	44445	orion	44545	owens	44645	pale
44146	o	44246	oft	44346	one	44446	ornery	44546	owing	44646	pall
44151	o'er	44251	often	44351	onion	44451	orono	44551	owl	44651	palm
44152	o's	44252	og	44352	only	44452	orr	44552	owly	44652	palo
44153	oa	44253	ogden	44353	onset	44453	os	44553	own	44653	palsy
44154	oaf	44254	ogle	44354	onto	44454	osaka	44554	ox	44654	pam
44155	oak	44255	ogre	44355	onus	44455	oscar	44555	oxen	44655	pampa
44156	oaken	44256	oh	44356	onward	44456	osier	44556	oxeye	44656	pan
44161	oakley	44261	ohio	44361	onyx	44461	oslo	44561	oxide	44661	panama
44162	oar	44262	ohm	44362	oo	44462	ot	44562	oxnard	44662	panda
44163	oases	44263	ohmic	44363	ooo	44463	other	44563	oy	44663	pane
44164	oasis	44264	oi	44364	oooo	44464	otis	44564	oz	44664	panel
44165	oat	44265	oil	44365	ooze	44465	ott	44565	ozark	44665	pang
44166	oath	44266	oily	44366	op	44466	otter	44566	ozone	44666	panic

45111	pansy	45211	pater	45311	pebble	45411	perky	45511	pi	45611	pithy
45112	pant	45212	path	45312	pecan	45412	perle	45512	piano	45612	pitney
45113	panty	45213	patio	45313	peck	45413	perry	45513	pica	45613	pitt
45114	paoli	45214	patsy	45314	pecos	45414	persia	45514	pick	45614	pity
45115	pap	45215	patti	45315	pedal	45415	pert	45515	pickup	45615	pius
45116	papa	45216	patton	45316	pedro	45416	perth	45516	picky	45616	pivot
45121	papal	45221	patty	45321	pee	45421	peru	45521	pie	45621	pixel
45122	papaw	45222	paul	45322	peed	45422	peruse	45522	piece	45622	pixy
45123	paper	45223	paula	45323	peek	45423	pest	45523	pier	45623	pizza
45124	pappy	45224	pauli	45324	peel	45424	peste	45524	pierce	45624	pj
45125	papua	45225	paulo	45325	peep	45425	pet	45525	piety	45625	pk
45126	par	45226	pause	45326	peepy	45426	petal	45526	pig	45626	pl
45131	parch	45231	pave	45331	peer	45431	pete	45531	piggy	45631	place
45132	pardon	45232	paw	45332	peg	45432	peter	45532	pike	45632	plague
45133	pare	45233	pawn	45333	peggy	45433	petit	45533	pile	45633	plaid
45134	pareto	45234	pax	45334	pelt	45434	petri	45534	pill	45634	plain
45135	paris	45235	pay	45335	pen	45435	petty	45535	pilot	45635	plan
45136	park	45236	payday	45336	penal	45436	pew	45536	pimp	45636	plane
45141	parke	45241	payne	45341	pence	45441	pewee	45541	pin	45641	plank
45142	parks	45242	paz	45342	pencil	45442	pf	45542	pinch	45642	plant
45143	parr	45243	pb	45343	pend	45443	pg	45543	pine	45643	plasm
45144	parry	45244	pbs	45344	penh	45444	ph	45544	ping	45644	plat
45145	parse	45245	pc	45345	penn	45445	ph.d	45545	pinion	45645	plate
45146	part	45246	pd	45346	penna	45446	phage	45546	pink	45646	plato
45151	party	45251	pe	45351	penny	45451	phase	45551	pint	45651	play
45152	pascal	45252	pea	45352	pent	45452	phd	45552	pinto	45652	playa
45153	pasha	45253	peace	45353	peony	45453	phenol	45553	pion	45653	plaza
45154	paso	45254	peach	45354	pep	45454	phi	45554	piotr	45654	plea
45155	pass	45255	peak	45355	peppy	45455	phil	45555	pious	45655	plead
45156	passe	45256	peaky	45356	pepsi	45456	phlox	45556	pip	45656	pleat
45161	past	45261	peal	45361	per	45461	phon	45561	pipe	45661	pledge
45162	paste	45262	peale	45362	perch	45462	phone	45562	piper	45662	pliny
45163	pasty	45263	pear	45363	percy	45463	phony	45563	pique	45663	plod
45164	pat	45264	pearl	45364	perez	45464	photo	45564	pit	45664	plop
45165	patch	45265	pease	45365	peril	45465	phyla	45565	pitch	45665	plot
45166	pate	45266	peat	45366	perk	45466	physic	45566	pith	45666	plow

46111	pluck	46211	polk	46311	potts	46411	print	46511	puffy	46611	pw
46112	plug	46212	polka	46312	pouch	46412	prior	46512	pug	46612	px
46113	plum	46213	poll	46313	pound	46413	prism	46513	pugh	46613	py
46114	plumb	46214	polo	46314	pour	46414	prissy	46514	puke	46614	pygmy
46115	plume	46215	pomona	46315	pout	46415	privy	46515	pull	46615	pyle
46116	plump	46216	pomp	46316	pow	46416	prize	46516	pulp	46616	pyre
46121	plunk	46221	ponce	46321	powder	46421	pro	46521	pulse	46621	pyrex
46122	plus	46222	pond	46322	power	46422	probe	46522	puma	46622	pyrite
46123	plush	46223	pong	46323	pp	46423	prod	46523	pump	46623	pz
46124	plushy	46224	pont	46324	ppm	46424	prof	46524	pun	46624	q
46125	pluto	46225	pony	46325	ppp	46425	prom	46525	punch	46625	q's
46126	ply	46226	pooch	46326	pppp	46426	prone	46526	punic	46626	qa
46131	pm	46231	pooh	46331	pq	46431	prong	46531	punish	46631	qatar
46132	pn	46232	pool	46332	pqr	46432	proof	46532	punk	46632	qb
46133	po	46233	poole	46333	pr	46433	prop	46533	punky	46633	qc
46134	poach	46234	poop	46334	prado	46434	propyl	46534	punt	46634	qd
46135	pobox	46235	poor	46335	pram	46435	prose	46535	puny	46635	qe
46136	pod	46236	pop	46336	prank	46436	proud	46536	pup	46636	qed
46141	podge	46241	pope	46341	pratt	46441	prove	46541	pupal	46641	qf
46142	podia	46242	poppy	46342	pray	46442	prow	46542	pupil	46642	qg
46143	poe	46243	porch	46343	preen	46443	prowl	46543	puppy	46643	qh
46144	poem	46244	pore	46344	prefix	46444	proxy	46544	pure	46644	qi
46145	poesy	46245	pork	46345	prep	46445	prune	46545	purge	46645	qj
46146	poet	46246	porous	46346	press	46446	pry	46546	purl	46646	qk
46151	poetry	46251	port	46351	prexy	46451	ps	46551	purr	46651	ql
46152	pogo	46252	porte	46352	prey	46452	psalm	46552	purse	46652	qm
46153	poi	46253	portia	46353	priam	46453	psi	46553	pus	46653	qn
46154	point	46254	porto	46354	price	46454	psych	46554	pusan	46654	qo
46155	poise	46255	pose	46355	prick	46455	pt	46555	pusey	46655	qp
46156	poke	46256	posey	46356	pride	46456	pta	46556	push	46656	qq
46161	pol	46261	posh	46361	prig	46461	pu	46561	pussy	46661	qqq
46162	polar	46262	posit	46362	prim	46462	pub	46562	put	46662	qqqq
46163	pole	46263	posse	46363	prima	46463	puck	46563	putt	46663	qr
46164	police	46264	post	46364	prime	46464	puddly	46564	putty	46664	qrs
46165	polio	46265	posy	46365	primp	46465	puerto	46565	pvc	46665	qs
46166	polis	46266	pot	46366	prince	46466	puff	46566	pvc	46666	qt

51111 qu	51211 quod	51311 raj	51411 rave	51511 reese	51611 rever
51112 qua	51212 quota	51312 rajah	51412 ravel	51512 reeve	51612 revet
51113 quack	51213 quote	51313 rake	51413 raven	51513 refer	51613 revved
51114 quad	51214 qv	51314 rally	51414 raw	51514 regal	51614 rex
51115 quaff	51215 qw	51315 ralph	51415 ray	51515 regina	51615 rf
51116 quail	51216 qx	51316 ram	51416 raze	51516 regis	51616 rg
51121 quake	51221 qy	51321 raman	51421 razor	51521 reich	51621 rh
51122 qualm	51222 qz	51322 ramo	51422 rb	51522 reid	51622 rhea
51123 quark	51223 r	51323 ramp	51423 rc	51523 reign	51623 rheum
51124 quarry	51224 r&d	51324 ramsey	51424 rca	51524 rein	51624 rhine
51125 quart	51225 r's	51325 ran	51425 rd	51525 relax	51625 rhino
51126 quash	51226 ra	51326 ranch	51426 re	51526 relay	51626 rho
51131 quasi	51231 rabat	51331 rand	51431 reach	51531 relic	51631 rhoda
51132 quay	51232 rabbi	51332 randy	51432 read	51532 reman	51632 rhode
51133 queasy	51233 rabbit	51333 rang	51433 ready	51533 remedy	51633 rhyme
51134 queen	51234 rabid	51334 range	51434 reagan	51534 remit	51634 ri
51135 queer	51235 rabin	51335 rangy	51435 real	51535 remus	51635 rib
51136 quell	51236 race	51336 rank	51436 realm	51536 rena	51636 rica
51141 query	51241 rack	51341 rant	51441 ream	51541 renal	51641 rice
51142 quest	51242 racy	51342 raoul	51442 reap	51542 rend	51642 rich
51143 queue	51243 radar	51343 rap	51443 rear	51543 rene	51643 rick
51144 quick	51244 radii	51344 rape	51444 reave	51544 renown	51644 rico
51145 quid	51245 radio	51345 rapid	51445 reb	51545 rent	51645 rid
51146 quiet	51246 radium	51346 rapt	51446 rebel	51546 rep	51646 ride
51151 quill	51251 radix	51351 rare	51451 rebut	51551 repel	51651 ridge
51152 quilt	51252 radon	51352 rasa	51452 recipe	51552 repent	51652 rifle
51153 quinn	51253 rae	51353 rascal	51453 reck	51553 resin	51653 rift
51154 quint	51254 rafael	51354 rash	51454 recur	51554 resort	51654 rig
51155 quip	51255 raft	51355 rasp	51455 red	51555 rest	51655 riga
51156 quirk	51256 rag	51356 rat	51456 redeem	51556 ret	51656 rigel
51161 quirt	51261 rage	51361 rata	51461 reduce	51561 retch	51661 riggs
51162 quit	51262 raid	51362 rate	51462 reed	51562 return	51662 right
51163 quite	51263 rail	51363 rater	51463 reedy	51563 reub	51663 rigid
51164 quito	51264 rain	51364 ratio	51464 reef	51564 rev	51664 riley
51165 quiz	51265 rainy	51365 rattle	51465 reek	51565 reveal	51665 rill
51166 quo	51266 raise	51366 raul	51466 reel	51566 revel	51666 rilly

52111 rim	52211 robin	52311 rotc	52411 rudy	52511 rye	52611 salvo
52112 rime	52212 robot	52312 roth	52412 rue	52512 rz	52612 sam
52113 rimy	52213 rock	52313 rotor	52413 rufus	52513 s	52613 samba
52114 ring	52214 rocket	52314 rouge	52414 rug	52514 s's	52614 same
52115 rink	52215 rocky	52315 rough	52415 ruin	52515 sa	52615 sammy
52116 rinse	52216 rod	52316 round	52416 rule	52516 sabine	52616 samoa
52121 rio	52221 rode	52321 rouse	52421 rum	52521 sable	52621 samuel
52122 riot	52222 rodeo	52322 rout	52422 rumen	52522 sabra	52622 san
52123 rip	52223 roe	52323 route	52423 rummy	52523 sac	52623 sana
52124 ripe	52224 roger	52324 rove	52424 rump	52524 sachs	52624 sand
52125 ripen	52225 rogue	52325 row	52425 rumpus	52525 sack	52625 sandal
52126 ripley	52226 roil	52326 rowdy	52426 run	52526 sad	52626 sandy
52131 rise	52231 role	52331 rowe	52431 rune	52531 saddle	52631 sane
52132 risen	52232 roll	52332 roy	52432 rung	52532 sadie	52632 sang
52133 risk	52233 roman	52333 royal	52433 runge	52533 safari	52633 sank
52134 risky	52234 rome	52334 royce	52434 runic	52534 safe	52634 sans
52135 rite	52235 romeo	52335 rp	52435 runt	52535 sag	52635 santa
52136 ritz	52236 romp	52336 rpm	52436 runty	52536 saga	52636 santo
52141 rival	52241 ron	52341 rq	52441 rupee	52541 sage	52641 sao
52142 riven	52242 rondo	52342 rr	52442 rural	52542 sago	52642 sap
52143 river	52243 rood	52343 rrr	52443 ruse	52543 said	52643 sappy
52144 rivet	52244 roof	52344 rrrr	52444 rush	52544 sail	52644 sara
52145 riyadh	52245 rook	52345 rs	52445 rusk	52545 saint	52645 sarah
52146 rj	52246 rookie	52346 rst	52446 russ	52546 sake	52646 saran
52151 rk	52251 rooky	52351 rsvp	52451 russo	52551 sal	52651 sari
52152 rl	52252 room	52352 rt	52452 rust	52552 salad	52652 sash
52153 rm	52253 roomy	52353 ru	52453 rusty	52553 sale	52653 sat
52154 rn	52254 roost	52354 ruanda	52454 rut	52554 salem	52654 satan
52155 ro	52255 root	52355 rub	52455 ruth	52555 saline	52655 satin
52156 roach	52256 rope	52356 rube	52456 rutty	52556 salk	52656 satyr
52161 road	52261 rosa	52361 ruben	52461 rv	52561 salle	52661 sauce
52162 roam	52262 rose	52362 rubin	52462 rw	52562 sally	52662 saucy
52163 roar	52263 rosen	52363 rubric	52463 rx	52563 salon	52663 saud
52164 roast	52264 ross	52364 ruby	52464 ry	52564 salt	52664 saudi
52165 rob	52265 rosy	52365 ruddy	52465 ryan	52565 salty	52665 saul
52166 robe	52266 rot	52366 rude	52466 ryder	52566 salve	52666 sault

53111 saute	53211 scops	53311 seder	53411 set	53511 sharp	53611 shoe
53112 save	53212 score	53312 sedge	53412 seth	53512 shave	53612 shoji
53113 savoy	53213 scoria	53313 see	53413 seton	53513 shaw	53613 shone
53114 savvy	53214 scorn	53314 seed	53414 setup	53514 shawl	53614 shoo
53115 saw	53215 scot	53315 seedy	53415 seven	53515 shay	53615 shook
53116 sawyer	53216 scott	53316 seek	53416 sever	53516 she	53616 shoot
53121 sax	53221 scour	53321 seem	53421 severe	53521 she'd	53621 shop
53122 saxon	53222 scout	53322 seen	53422 sew	53522 shea	53622 shore
53123 say	53223 scowl	53323 seep	53423 sewn	53523 sheaf	53623 short
53124 sb	53224 scram	53324 seethe	53424 sex	53524 shear	53624 shot
53125 sc	53225 scrap	53325 seize	53425 sexy	53525 sheath	53625 shout
53126 scab	53226 scrape	53326 self	53426 sf	53526 shed	53626 shove
53131 scala	53231 screw	53331 sell	53431 sg	53531 sheen	53631 show
53132 scald	53232 scrim	53332 selma	53432 sh	53532 sheep	53632 shown
53133 scale	53233 scrub	53333 semi	53433 shack	53533 sheer	53633 showy
53134 scalp	53234 scuba	53334 sen	53434 shad	53534 sheet	53634 shrank
53135 scam	53235 scud	53335 send	53435 shade	53535 sheik	53635 shred
53136 scamp	53236 scuff	53336 seneca	53436 shady	53536 shelf	53636 shrew
53141 scan	53241 scull	53341 senior	53441 shafer	53541 shell	53641 shrike
53142 scant	53242 scum	53342 sense	53442 shaft	53542 shied	53642 shrub
53143 scar	53243 scurry	53343 sent	53443 shag	53543 shift	53643 shrug
53144 scare	53244 sd	53344 sentry	53444 shah	53544 shill	53644 shu
53145 scarf	53245 se	53345 seoul	53445 shake	53545 shim	53645 shuck
53146 scary	53246 sea	53346 sepal	53446 shaken	53546 shin	53646 shun
53151 scat	53251 seal	53351 sepia	53451 shako	53551 shine	53651 shunt
53152 scaup	53252 seam	53352 sepoy	53452 shaky	53552 shinto	53652 shut
53153 scene	53253 seamy	53353 sept	53453 shale	53553 shiny	53653 shy
53154 scent	53254 sean	53354 septa	53454 shall	53554 ship	53654 si
53155 school	53255 sear	53355 sequin	53455 sham	53555 shire	53655 sial
53156 scion	53256 sears	53356 sera	53456 shame	53556 shirk	53656 siam
53161 scm	53261 season	53361 serf	53461 shank	53561 shirt	53661 sian
53162 scoff	53262 seat	53362 serge	53462 shape	53562 shish	53662 sib
53163 scold	53263 sec	53363 serif	53463 shard	53563 shiv	53663 sibley
53164 scoop	53264 secant	53364 serum	53464 share	53564 shoal	53664 sibyl
53165 scoot	53265 sect	53365 serve	53465 shari	53565 shock	53665 sic
53166 scope	53266 sedan	53366 servo	53466 shark	53566 shod	53666 sick

54111 side	54211 sir	54311 sky	54411 sloan	54511 sn	54611 social
54112 sidle	54212 sire	54312 skye	54412 slob	54512 snack	54612 sock
54113 siege	54213 siren	54313 sl	54413 sloe	54513 snafu	54613 sod
54114 siena	54214 sis	54314 slab	54414 slog	54514 snag	54614 soda
54115 sieve	54215 sisal	54315 slack	54415 sloop	54515 snail	54615 sofa
54116 sift	54216 sit	54316 slag	54416 slop	54516 snake	54616 sofia
54121 sigh	54221 site	54321 slain	54421 slope	54521 snap	54621 soft
54122 sight	54222 situ	54322 slake	54422 slosh	54522 snare	54622 soften
54123 sigma	54223 situs	54323 slam	54423 slot	54523 snark	54623 soggy
54124 sign	54224 siva	54324 slang	54424 sloth	54524 snarl	54624 soil
54125 signal	54225 six	54325 slant	54425 slow	54525 snatch	54625 sol
54126 signor	54226 sixgun	54326 slap	54426 slug	54526 sneak	54626 solar
54131 silas	54231 sixth	54331 slash	54431 sluice	54531 sneer	54631 sold
54132 silk	54232 sixty	54332 slat	54432 slum	54532 snell	54632 sole
54133 silky	54233 size	54333 slate	54433 slump	54533 snick	54633 solemn
54134 sill	54234 sj	54334 slater	54434 slung	54534 sniff	54634 solid
54135 silly	54235 sk	54335 slav	54435 slur	54535 snip	54635 solo
54136 silo	54236 skat	54336 slave	54436 slurp	54536 snipe	54636 solon
54141 silt	54241 skate	54341 slay	54441 sly	54541 snob	54641 solve
54142 silty	54242 skeet	54342 sled	54442 sm	54542 snook	54642 soma
54143 sima	54243 skew	54343 sleek	54443 smack	54543 snoop	54643 somal
54144 simon	54244 ski	54344 sleep	54444 small	54544 snore	54644 some
54145 simons	54245 skid	54345 sleet	54445 smart	54545 snort	54645 son
54146 sims	54246 skied	54346 slept	54446 smash	54546 snout	54646 sonar
54151 sin	54251 skiff	54351 slew	54451 smear	54551 snow	54651 song
54152 sinai	54252 skill	54352 slice	54452 smell	54552 snowy	54652 sonic
54153 since	54253 skim	54353 slick	54453 smelt	54553 snub	54653 sonny
54154 sine	54254 skimp	54354 slid	54454 smile	54554 snuff	54654 sonora
54155 sinew	54255 skimpy	54355 slide	54455 smirk	54555 snug	54655 sony
54156 sing	54256 skin	54356 slim	54456 smith	54556 so	54656 soon
54161 singe	54261 skip	54361 slime	54461 smithy	54561 soak	54661 soot
54162 sinh	54262 skirt	54362 slimy	54462 smog	54562 soap	54662 sooth
54163 sink	54263 skit	54363 sling	54463 smoke	54563 soapy	54663 sop
54164 sinus	54264 skulk	54364 slip	54464 smoky	54564 soar	54664 sora
54165 sioux	54265 skull	54365 slit	54465 smug	54565 sob	54665 sorb
54166 sip	54266 skunk	54366 sliver	54466 smut	54566 sober	54666 sore

55111 sorry	55211 speed	55311 spout	55411 stagy	55511 stella	55611 strap
55112 sort	55212 spell	55312 sprain	55412 stahl	55512 stem	55612 straw
55113 sos	55213 spend	55313 spray	55413 staid	55513 step	55613 stray
55114 sou	55214 spent	55314 spree	55414 stain	55514 stern	55614 strewn
55115 sough	55215 sperm	55315 sprig	55415 stair	55515 steve	55615 strip
55116 soul	55216 sperry	55316 spruce	55416 stake	55516 stew	55616 stroll
55121 sound	55221 spew	55321 sprue	55421 stale	55521 stick	55621 strom
55122 soup	55222 spica	55322 spud	55422 stalk	55522 stiff	55622 strop
55123 sour	55223 spice	55323 spume	55423 stall	55523 stile	55623 strum
55124 source	55224 spicy	55324 spun	55424 stamp	55524 still	55624 strut
55125 sousa	55225 spike	55325 punk	55425 stan	55525 stilt	55625 stu
55126 south	55226 spiky	55326 spur	55426 stance	55526 sting	55626 stuart
55131 sow	55231 spill	55331 spurn	55431 stand	55531 stingy	55631 stub
55132 sown	55232 spilt	55332 spurt	55432 stank	55532 stink	55632 stuck
55133 soy	55233 spin	55333 spy	55433 staph	55533 stint	55633 stud
55134 soya	55234 spine	55334 sq	55434 star	55534 stir	55634 study
55135 sp	55235 spiny	55335 squad	55435 stare	55535 stock	55635 stuff
55136 spa	55236 spire	55336 squat	55436 stark	55536 stoic	55636 stuffy
55141 space	55241 spiro	55341 squaw	55441 starr	55541 stoke	55641 stump
55142 spade	55242 spit	55342 squibb	55442 start	55542 stole	55642 stun
55143 spain	55243 spite	55343 squid	55443 stash	55543 stomp	55643 stung
55144 span	55244 spitz	55344 squint	55444 state	55544 stone	55644 stunk
55145 spar	55245 splat	55345 sr	55445 statue	55545 stony	55645 stunt
55146 spare	55246 splay	55346 sri	55446 stave	55546 stood	55646 sturm
55151 sparge	55251 spline	55351 ss	55451 stay	55551 stool	55651 style
55152 spark	55252 split	55352 sss	55452 stead	55552 stoop	55652 styli
55153 spasm	55253 spoil	55353 ssss	55453 steak	55553 stop	55653 styx
55154 spat	55254 spoke	55354 sst	55454 steal	55554 store	55654 su
55155 spate	55255 spoof	55355 st	55455 steam	55555 storey	55655 suave
55156 spawn	55256 spook	55356 st.	55456 steed	55556 stork	55656 sub
55161 spay	55261 spooky	55361 stab	55461 steel	55561 storm	55661 subtly
55162 speak	55262 spool	55362 stack	55462 steele	55562 story	55662 such
55163 spear	55263 spoon	55363 stacy	55463 steen	55563 stout	55663 suck
55164 spec	55264 spore	55364 staff	55464 steep	55564 stove	55664 sud
55165 speck	55265 sport	55365 stag	55465 steer	55565 stow	55665 sudan
55166 sped	55266 spot	55366 stage	55466 stein	55566 strafe	55666 suds

56111 sue	56211 swam	56311 sx	56411 talky	56511 tasty	56611 tempo
56112 suey	56212 swami	56312 sy	56412 tall	56512 tat	56612 tempt
56113 suez	56213 swamp	56313 sybil	56413 tallow	56513 tate	56613 ten
56114 sugar	56214 swampy	56314 sykes	56414 tally	56514 tater	56614 tend
56115 suit	56215 swan	56315 sylow	56415 talon	56515 tattle	56615 tenet
56116 suite	56216 swank	56316 sylvan	56416 talus	56516 tatty	56616 tenney
56121 sulfa	56221 swap	56321 synge	56421 tam	56521 tau	56621 tenon
56122 sulk	56222 swarm	56322 synod	56422 tame	56522 taunt	56622 tenor
56123 sulky	56223 swart	56323 syria	56423 tamp	56523 taut	56623 tense
56124 sully	56224 swat	56324 syrup	56424 tampa	56524 tavern	56624 tensor
56125 sultry	56225 swath	56325 sz	56425 tan	56525 tawny	56625 tent
56126 sum	56226 sway	56326 t	56426 tang	56526 tax	56626 tenth
56131 sumac	56231 swear	56331 t's	56431 tango	56531 taxi	56631 tepee
56132 summon	56232 sweat	56332 ta	56432 tangy	56532 tb	56632 tepid
56133 sun	56233 sweaty	56333 tab	56433 tanh	56533 tc	56633 term
56134 sung	56234 swede	56334 table	56434 tank	56534 td	56634 tern
56135 sunk	56235 sweep	56335 taboo	56435 tansy	56535 te	56635 terra
56136 sunny	56236 sweet	56336 tabu	56436 tanya	56536 tea	56636 terre
56141 sunset	56241 swell	56341 tabula	56441 tao	56541 teach	56641 terry
56142 suny	56242 swelt	56342 tacit	56442 taos	56542 teal	56642 terse
56143 sup	56243 swept	56343 tack	56443 tap	56543 team	56643 tess
56144 super	56244 swift	56344 tacky	56444 tapa	56544 tear	56644 test
56145 supra	56245 swig	56345 tacoma	56445 tape	56545 tease	56645 testy
56146 sure	56246 swim	56346 tact	56446 taper	56546 teat	56646 tete
56151 surf	56251 swine	56351 tad	56451 tapir	56551 tech	56651 texan
56152 surge	56252 swing	56352 taffy	56452 tapis	56552 tecum	56652 texas
56153 sus	56253 swipe	56353 taft	56453 tappa	56553 ted	56653 text
56154 susan	56254 swirl	56354 tag	56454 tar	56554 teddy	56654 tf
56155 sushi	56255 swish	56355 tahoe	56455 tara	56555 tee	56655 tg
56156 susie	56256 swiss	56356 tail	56456 tardy	56556 teem	56656 th
56161 sutton	56261 swoop	56361 taint	56461 tariff	56561 teen	56661 thai
56162 sv	56262 sword	56362 take	56462 tarry	56562 teensy	56662 than
56163 sw	56263 swore	56363 taken	56463 tart	56563 teet	56663 thank
56164 swab	56264 sworn	56364 talc	56464 task	56564 teeth	56664 that
56165 swag	56265 swum	56365 tale	56465 tass	56565 telex	56665 thaw
56166 swain	56266 swung	56366 talk	56466 taste	56566 tell	56666 the

61111	thea	61211	thumb	61311	tine	61411	tokyo	61511	tory	61611	treat
61112	thee	61212	thump	61312	tinge	61412	told	61512	toss	61612	treble
61113	theft	61213	thus	61313	tint	61413	toll	61513	tot	61613	tree
61114	their	61214	thy	61314	tiny	61414	tom	61514	total	61614	trek
61115	them	61215	thyme	61315	tioga	61415	tomb	61515	tote	61615	trench
61116	theme	61216	ti	61316	tip	61416	tome	61516	totem	61616	trend
61121	then	61221	tiber	61321	tipoff	61421	tommy	61521	touch	61621	tress
61122	there	61222	tibet	61322	tippy	61422	ton	61522	tough	61622	triad
61123	these	61223	tibia	61323	tipsy	61423	tonal	61523	tour	61623	trial
61124	theta	61224	tic	61324	tire	61424	tone	61524	tout	61624	tribe
61125	they	61225	tick	61325	tit	61425	tong	61525	tow	61625	trick
61126	thick	61226	ticket	61326	titan	61426	toni	61526	towel	61626	tried
61131	thief	61231	tid	61331	tithe	61431	tonic	61531	tower	61631	trig
61132	thigh	61232	tidal	61332	title	61432	tonk	61532	town	61632	trill
61133	thin	61233	tidbit	61333	titus	61433	tonsil	61533	toxic	61633	trim
61134	thine	61234	tide	61334	tj	61434	tony	61534	toxin	61634	trio
61135	thing	61235	tidy	61335	tk	61435	too	61535	toy	61635	trip
61136	think	61236	tie	61336	tl	61436	took	61536	tp	61636	tripe
61141	third	61241	tied	61341	tm	61441	tool	61541	tq	61641	trite
61142	this	61242	tier	61342	tn	61442	toot	61542	tr	61642	triton
61143	thong	61243	tift	61343	tnt	61443	tooth	61543	trace	61643	trod
61144	thor	61244	tiger	61344	to	61444	top	61544	track	61644	troll
61145	thorn	61245	tight	61345	toad	61445	topaz	61545	tract	61645	troop
61146	thorny	61246	til	61346	toady	61446	topic	61546	tracy	61646	trot
61151	those	61251	tilde	61351	toast	61451	topple	61551	trade	61651	trout
61152	thou	61252	tile	61352	toby	61452	topsy	61552	trag	61652	troy
61153	thread	61253	till	61353	today	61453	tor	61553	trail	61653	truce
61154	three	61254	tilt	61354	todd	61454	torah	61554	train	61654	truck
61155	threw	61255	tilth	61355	toe	61455	torch	61555	trait	61655	trudge
61156	throb	61256	tim	61356	tofu	61456	tore	61556	tram	61656	trudy
61161	throes	61261	time	61361	tog	61461	tori	61561	tramp	61661	true
61162	throw	61262	timex	61362	togo	61462	torn	61562	trap	61662	truly
61163	thrum	61263	timid	61363	togs	61463	torr	61563	trash	61663	trump
61164	thud	61264	timon	61364	toil	61464	torso	61564	trawl	61664	trunk
61165	thug	61265	tin	61365	toilet	61465	tort	61565	tray	61665	truss
61166	thule	61266	tina	61366	token	61466	torus	61566	tread	61666	trust

62111	truth	62211	turvy	62311	ua	62411	uphold	62511	utah	62611	vast
62112	trw	62212	tusk	62312	ub	62412	upon	62512	utica	62612	vat
62113	try	62213	tussle	62313	uc	62413	upper	62513	utile	62613	vault
62114	ts	62214	tutor	62314	ucla	62414	uproar	62514	utmost	62614	vb
62115	tsar	62215	tutu	62315	ud	62415	upset	62515	utter	62615	vc
62116	tt	62216	tuv	62316	ue	62416	uptake	62516	uu	62616	vd
62121	ttl	62221	tv	62321	uf	62421	upton	62521	uuu	62621	ve
62122	ttt	62222	tva	62322	ug	62422	uq	62522	uuuu	62622	veal
62123	tttt	62223	tw	62323	ugh	62423	ur	62523	uv	62623	veda
62124	tty	62224	twa	62324	ugly	62424	urban	62524	uvw	62624	vee
62125	tu	62225	twain	62325	uh	62425	urbane	62525	uw	62625	veer
62126	tub	62226	tweak	62326	ui	62426	urea	62526	ux	62626	veery
62131	tuba	62231	tweed	62331	uj	62431	urge	62531	uy	62631	vega
62132	tube	62232	twice	62332	uk	62432	uri	62532	uz	62632	veil
62133	tuck	62233	twig	62333	ul	62433	urine	62533	v	62633	vein
62134	tudor	62234	twill	62334	ulan	62434	uris	62534	v's	62634	velar
62135	tuff	62235	twin	62335	ulcer	62435	urn	62535	va	62635	veldt
62136	tuft	62236	twine	62336	ultra	62436	ursa	62536	vacua	62636	vella
62141	tug	62241	twirl	62341	um	62441	us	62541	vacuo	62641	vellum
62142	tulane	62242	twist	62342	umber	62442	usa	62542	vade	62642	venal
62143	tulip	62243	twisty	62343	umbra	62443	usaf	62543	vaduz	62643	vend
62144	tulle	62244	twit	62344	umpire	62444	usage	62544	vague	62644	venial
62145	tulsa	62245	two	62345	un	62445	usc	62545	vail	62645	venom
62146	tum	62246	twx	62346	unary	62446	usda	62546	vain	62646	vent
62151	tun	62251	tx	62351	uncle	62451	use	62551	vale	62651	venus
62152	tuna	62252	ty	62352	under	62452	useful	62552	valet	62652	vera
62153	tune	62253	tyburn	62353	unify	62453	usgs	62553	valeur	62653	verb
62154	tung	62254	tying	62354	union	62454	usher	62554	valid	62654	verde
62155	tunic	62255	tyler	62355	unit	62455	usia	62555	value	62655	verdi
62156	tunis	62256	type	62356	unite	62456	usn	62556	valve	62656	verge
62161	tunnel	62261	typic	62361	unity	62461	usps	62561	vamp	62661	verity
62162	tuple	62262	typo	62362	unix	62462	ussr	62562	van	62662	verna
62163	turf	62263	tyson	62363	until	62463	usual	62563	vance	62663	verne
62164	turin	62264	tz	62364	uo	62464	usurp	62564	vane	62664	versa
62165	turk	62265	u	62365	up	62465	usury	62565	vary	62665	verse
62166	turn	62266	u's	62366	upend	62466	ut	62566	vase	62666	verve

63111	very	63211	vise	63311	vp	63411	waite	63511	waste	63611	week
63112	vessel	63212	visit	63312	vq	63412	waive	63512	watch	63612	weeks
63113	vest	63213	visor	63313	vr	63413	wake	63513	water	63613	weep
63114	vet	63214	vista	63314	vs	63414	waken	63514	watt	63614	wehr
63115	vetch	63215	vita	63315	vt	63415	waldo	63515	watts	63615	wei
63116	veto	63216	vitae	63316	vu	63416	wale	63516	wave	63616	weigh
63121	vex	63221	vital	63321	vulcan	63421	walk	63521	wavy	63621	weir
63122	vf	63222	vito	63322	vv	63422	walkie	63522	wax	63622	weird
63123	vg	63223	vitro	63323	vvv	63423	wall	63523	waxen	63623	weiss
63124	vh	63224	viva	63324	vvvv	63424	walls	63524	waxy	63624	welch
63125	vi	63225	vivian	63325	vw	63425	wally	63525	way	63625	weld
63126	via	63226	vivid	63326	vx	63426	walsh	63526	wayne	63626	well
63131	vial	63231	vivo	63331	vy	63431	walt	63531	wb	63631	wells
63132	vicar	63232	vixen	63332	vying	63432	walton	63532	wc	63632	welsh
63133	vice	63233	viz	63333	vz	63433	waltz	63533	wd	63633	welt
63134	vichy	63234	vj	63334	w	63434	wan	63534	we	63634	wendy
63135	vicky	63235	vk	63335	w's	63435	wand	63535	we'd	63635	went
63136	vida	63236	vl	63336	wa	63436	wane	63536	we'll	63636	wept
63141	video	63241	vm	63341	waals	63441	wang	63541	we're	63641	were
63142	vie	63242	vn	63342	wac	63442	want	63542	we've	63642	wert
63143	viet	63243	vo	63343	wack	63443	war	63543	weak	63643	west
63144	view	63244	vocal	63344	wacke	63444	ward	63544	weal	63644	wet
63145	vigil	63245	vogel	63345	wacky	63445	ware	63545	wealth	63645	wf
63146	vii	63246	vogue	63346	waco	63446	warm	63546	wean	63646	wg
63151	viii	63251	voice	63351	wad	63451	warmth	63551	wear	63651	wh
63152	vile	63252	void	63352	wade	63452	warn	63552	weary	63652	whack
63153	villa	63253	volt	63353	wadi	63453	warp	63553	weave	63653	whale
63154	vine	63254	volta	63354	wafer	63454	warren	63554	web	63654	wham
63155	vinyl	63255	volvo	63355	wag	63455	wart	63555	webb	63655	wharf
63156	viola	63256	vomit	63356	wage	63456	warty	63556	weber	63656	what
63161	violet	63261	von	63361	waggle	63461	wary	63561	weco	63661	wheat
63162	virgil	63262	voss	63362	wah	63462	was	63562	wed	63662	whee
63163	virgo	63263	vote	63363	wahl	63463	wash	63563	wedge	63663	wheel
63164	virus	63264	vouch	63364	wail	63464	washy	63564	wee	63664	whelk
63165	vis	63265	vow	63365	waist	63465	wasp	63565	weed	63665	whelm
63166	visa	63266	vowel	63366	wait	63466	wast	63566	weedy	63666	whelp

64111	when	64211	wife	64311	withy	64411	world	64511	ww	64611	xt
64112	where	64212	wig	64312	witt	64412	worm	64512	www	64612	xu
64113	whet	64213	wild	64313	witty	64413	wormy	64513	www	64613	xv
64114	which	64214	wile	64314	wive	64414	worn	64514	wx	64614	xw
64115	whiff	64215	wiley	64315	wj	64415	worry	64515	wxy	64615	xx
64116	whig	64216	wilkes	64316	wk	64416	worse	64516	wy	64616	xxx
64121	while	64221	will	64321	wl	64421	worst	64521	wyatt	64621	xxxx
64122	whim	64222	willa	64322	wm	64422	worth	64522	wyeth	64622	xy
64123	whine	64223	wills	64323	wn	64423	wotan	64523	wylie	64623	xylem
64124	whinny	64224	wilma	64324	wo	64424	would	64524	wyman	64624	xyz
64125	whip	64225	wilt	64325	woe	64425	wound	64525	wyner	64625	xz
64126	whir	64226	wily	64326	wok	64426	wove	64526	wynn	64626	y
64131	whirl	64231	win	64331	woke	64431	woven	64531	wz	64631	y's
64132	whisk	64232	wince	64332	wold	64432	wow	64532	x	64632	ya
64133	whit	64233	winch	64333	wolf	64433	wp	64533	x's	64633	yacht
64134	white	64234	wind	64334	wolfe	64434	wq	64534	xa	64634	yah
64135	whiz	64235	windy	64335	wolff	64435	wr	64535	xb	64635	yak
64136	who	64236	wine	64336	wolve	64436	wrack	64536	xc	64636	yale
64141	who'd	64241	wing	64341	woman	64441	wrap	64541	xd	64641	yalta
64142	whoa	64242	wink	64342	womb	64442	wrath	64542	xe	64642	yam
64143	whole	64243	winnie	64343	women	64443	wreak	64543	xenon	64643	yamaha
64144	whom	64244	wino	64344	won	64444	wreck	64544	xerox	64644	yang
64145	whoop	64245	winter	64345	won't	64445	wrest	64545	xf	64645	yank
64146	whoosh	64246	winy	64346	wonder	64446	wring	64546	xg	64646	yap
64151	whop	64251	wipe	64351	wong	64451	wrist	64551	xh	64651	yaqui
64152	whose	64252	wire	64352	wont	64452	writ	64552	xi	64652	yard
64153	whup	64253	wiry	64353	woo	64453	write	64553	xj	64653	yarn
64154	why	64254	wise	64354	wood	64454	writhe	64554	xk	64654	yates
64155	wi	64255	wish	64355	woods	64455	wrong	64555	xl	64655	yaw
64156	wick	64256	wishy	64356	woody	64456	wrote	64556	xm	64656	yawl
64161	wide	64261	wisp	64361	wool	64461	wry	64561	xn	64661	yawn
64162	widen	64262	wispy	64362	woozy	64462	ws	64562	xo	64662	yb
64163	widow	64263	wit	64363	word	64463	wt	64563	xp	64663	yc
64164	width	64264	witch	64364	wordy	64464	wu	64564	xq	64664	yd
64165	wield	64265	with	64365	wore	64465	wuhan	64565	xr	64665	ye
64166	wier	64266	withe	64366	work	64466	wv	64566	xs	64666	yea

65111 yeah	65211 yost	65311 zb	65411 zorn	65511 21	65611 57
65112 year	65212 you	65312 zc	65412 zp	65512 22	65612 58
65113 yearn	65213 you'd	65313 zd	65413 zq	65513 23	65613 59
65114 yeast	65214 young	65314 ze	65414 zr	65514 24	65614 60
65115 yeasty	65215 your	65315 zeal	65415 zs	65515 25	65615 61
65116 yeats	65216 youth	65316 zealot	65416 zt	65516 26	65616 62
65121 yell	65221 yow	65321 zebra	65421 zu	65521 27	65621 63
65122 yelp	65222 yp	65322 zeiss	65422 zurich	65522 28	65622 64
65123 yemen	65223 yq	65323 zen	65423 zv	65523 29	65623 65
65124 yen	65224 yr	65324 zero	65424 zw	65524 30	65624 66
65125 yet	65225 ys	65325 zest	65425 zx	65525 31	65625 67
65126 yf	65226 yt	65326 zesty	65426 zy	65526 32	65626 68
65131 yg	65231 yu	65331 zeta	65431 zz	65531 33	65631 69
65132 yh	65232 yucca	65332 zeus	65432 zzz	65532 34	65632 70
65133 yi	65233 yuck	65333 zf	65433 zzzz	65533 35	65633 71
65134 yield	65234 yuh	65334 zg	65434 0	65534 36	65634 72
65135 yin	65235 yuki	65335 zh	65435 1	65535 37	65635 73
65136 yip	65236 yukon	65336 zi	65436 2	65536 38	65636 74
65141 yj	65241 yule	65341 zig	65441 3	65541 39	65641 75
65142 yk	65242 yv	65342 zilch	65442 4	65542 40	65642 76
65143 yl	65243 yves	65343 zinc	65443 5	65543 41	65643 77
65144 ym	65244 yw	65344 zing	65444 6	65544 42	65644 78
65145 ymca	65245 ywca	65345 zion	65445 7	65545 43	65645 79
65146 yn	65246 yx	65346 zip	65446 8	65546 44	65646 80
65151 yo	65251 yy	65351 zj	65451 9	65551 45	65651 81
65152 yodel	65252 yyy	65352 zk	65452 10	65552 46	65652 82
65153 yoder	65253 yyyy	65353 zl	65453 11	65553 47	65653 83
65154 yoga	65254 yz	65354 zloty	65454 12	65554 48	65654 84
65155 yogi	65255 z	65355 zm	65455 13	65555 49	65655 85
65156 yoke	65256 z's	65356 zn	65456 14	65556 50	65656 86
65161 yokel	65261 za	65361 zo	65461 15	65561 51	65661 87
65162 yolk	65262 zag	65362 zoe	65462 16	65562 52	65662 88
65163 yon	65263 zaire	65363 zomba	65463 17	65563 53	65663 89
65164 yond	65264 zan	65364 zone	65464 18	65564 54	65664 90
65165 yore	65265 zap	65365 zoo	65465 19	65565 55	65665 91
65166 york	65266 zazen	65366 zoom	65466 20	65566 56	65666 92

66111 93	66211 1492	66311 2468	66411 22nd	66511 55th	66611 89th
66112 94	66212 1500	66312 3000	66412 23rd	66512 56th	66612 8th
66113 95	66213 1600	66313 3333	66413 24th	66513 57th	66613 90th
66114 96	66214 1700	66314 3456	66414 25th	66514 58th	66614 91st
66115 97	66215 1776	66315 4000	66415 26th	66515 59th	66615 92nd
66116 98	66216 1800	66316 4321	66416 27th	66516 5th	66616 93rd
66121 99	66221 1812	66321 4444	66421 28th	66521 60th	66621 94th
66122 100	66222 1900	66322 4567	66422 29th	66522 61st	66622 95th
66123 101	66223 1910	66323 5000	66423 2nd	66523 62nd	66623 96th
66124 111	66224 1920	66324 5555	66424 30th	66524 63rd	66624 97th
66125 123	66225 1925	66325 5678	66425 31st	66525 65th	66625 98th
66126 200	66226 1930	66326 6000	66426 32nd	66526 66th	66626 99th
66131 222	66231 1935	66331 6666	66431 33rd	66531 67th	66631 9th
66132 234	66232 1940	66332 6789	66432 34th	66532 68th	66632 !
66133 300	66233 1945	66333 7000	66433 35th	66533 69th	66633 !!
66134 333	66234 1950	66334 7777	66434 36th	66534 6th	66634 "
66135 345	66235 1955	66335 8000	66435 37th	66535 70th	66635 #
66136 400	66236 1960	66336 8888	66436 38th	66536 71st	66636 ##
66141 444	66241 1965	66341 9000	66441 39th	66541 72nd	66641 \$
66142 456	66242 1970	66342 9876	66442 3rd	66542 73rd	66642 \$\$\$
66143 500	66243 1975	66343 9999	66443 40th	66543 74th	66643 %
66144 555	66244 1980	66344 100th	66444 41st	66544 75th	66644 %%
66145 567	66245 1985	66345 101st	66445 42nd	66545 76th	66645 &
66146 600	66246 1990	66346 10th	66446 43rd	66546 77th	66646 (
66151 666	66251 1991	66351 11th	66451 44th	66551 78th	66651 ()
66152 678	66252 1992	66352 12th	66452 45th	66552 79th	66652)
66153 700	66253 1993	66353 13th	66453 46th	66553 7th	66653 *
66154 777	66254 1994	66354 14th	66454 47th	66554 80th	66654 **
66155 789	66255 1995	66355 15th	66455 48th	66555 81st	66655 +
66156 800	66256 1996	66356 16th	66456 49th	66556 82nd	66656 -
66161 888	66261 1997	66361 17th	66461 4th	66561 83rd	66661 :
66162 900	66262 2000	66362 18th	66462 50th	66562 84th	66662 ;
66163 999	66263 2001	66363 19th	66463 51st	66563 85th	66663 =
66164 1000	66264 2020	66364 1st	66464 52nd	66564 86th	66664 ?
66165 1111	66265 2222	66365 20th	66465 53rd	66565 87th	66665 ??
66166 1234	66266 2345	66366 21st	66466 54th	66566 88th	66666 @