

Generate a secure bitcoin wallet

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The following pages will help you generate a secure Bitcoin (and other altcoins that use BIP39) wallet seed. All you need is a printout of this document (or, if you don't care as much about security, you can just keep it on your screen), and some dice. Normal, six-sided dice are fine, but D&D dice are faster. If you have D&D dice, roll a d20 and a d12 and add them together.

Once you start rolling, look at the column of your die (d4 if you have a six-sided die, or d32 if you have a d20+d12). Find the row whose numbers sequence begins with that roll, and roll again, until you reach the end. Once you reach the end, you have your word, and you can start the process again for the next word. There's only one caveat: **If you don't see your roll in the table, you need to reroll.**

Example, using a 6-sided die: The first roll is 4, but there's no 4 as a first number anywhere on the d4 columns, so roll until you get a 1 or a 2. Say the first roll is a 1, so write down "1" on the paper. Roll again, now it's 4, so you have "1 4". The next roll is 3, so you have "1 4 3", and then 5, but there's no row in the d4 column that starts with "1 4 3 5", so you reroll. You get a 2, so you have "1 4 3 2", then you get 6 and reroll. You get 4, so "1 4 3 2 4", and then roll 1 to "1 4 3 2 4 1". The word that has those numbers is "inform", so that's your word.

This PDF lives at <https://www.stavros.io/posts/perfectly-secure-bitcoin-wallet-generation/>

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
11111	1 1 1	abandon	131111	1 17 1	divorce	211111	2 1 1	length	231111	2 17 1	scale
11112	1 1 2	ability	131112	1 17 2	dizzy	211112	2 1 2	lens	231112	2 17 2	scan
11113	1 1 3	able	131113	1 17 3	doctor	211113	2 1 3	leopard	231113	2 17 3	scare
11114	1 1 4	about	131114	1 17 4	document	211114	2 1 4	lesson	231114	2 17 4	scatter
11121	1 1 5	above	131121	1 17 5	dog	211121	2 1 5	letter	231121	2 17 5	scene
11122	1 1 6	absent	131122	1 17 6	doll	211122	2 1 6	level	231122	2 17 6	scheme
11123	1 1 7	absorb	131123	1 17 7	dolphin	211123	2 1 7	liar	231123	2 17 7	school
11124	1 1 8	abstract	131124	1 17 8	domain	211124	2 1 8	liberty	231124	2 17 8	science
11131	1 1 9	absurd	131131	1 17 9	donate	211131	2 1 9	library	231131	2 17 9	scissors
11132	1 1 10	abuse	131132	1 17 10	donkey	211132	2 1 10	license	231132	2 17 10	scorpion
11133	1 1 11	access	131133	1 17 11	donor	211133	2 1 11	life	231133	2 17 11	scout
11134	1 1 12	accident	131134	1 17 12	door	211134	2 1 12	lift	231134	2 17 12	scrap
11141	1 1 13	account	131141	1 17 13	dose	211141	2 1 13	light	231141	2 17 13	screen
11142	1 1 14	accuse	131142	1 17 14	double	211142	2 1 14	like	231142	2 17 14	script
11143	1 1 15	achieve	131143	1 17 15	dove	211143	2 1 15	limb	231143	2 17 15	scrub
11144	1 1 16	acid	131144	1 17 16	draft	211144	2 1 16	limit	231144	2 17 16	sea
111211	1 1 17	acoustic	131211	1 17 17	dragon	211211	2 1 17	link	231211	2 17 17	search
111212	1 1 18	acquire	131212	1 17 18	drama	211212	2 1 18	lion	231212	2 17 18	season
111213	1 1 19	across	131213	1 17 19	drastic	211213	2 1 19	liquid	231213	2 17 19	seat
111214	1 1 20	act	131214	1 17 20	draw	211214	2 1 20	list	231214	2 17 20	second
111221	1 1 21	action	131221	1 17 21	dream	211221	2 1 21	little	231221	2 17 21	secret
111222	1 1 22	actor	131222	1 17 22	dress	211222	2 1 22	live	231222	2 17 22	section
111223	1 1 23	actress	131223	1 17 23	drift	211223	2 1 23	lizard	231223	2 17 23	security
111224	1 1 24	actual	131224	1 17 24	drill	211224	2 1 24	load	231224	2 17 24	seed
111231	1 1 25	adapt	131231	1 17 25	drink	211231	2 1 25	loan	231231	2 17 25	seek
111232	1 1 26	add	131232	1 17 26	drip	211232	2 1 26	lobster	231232	2 17 26	segment
111233	1 1 27	addict	131233	1 17 27	drive	211233	2 1 27	local	231233	2 17 27	select
111234	1 1 28	address	131234	1 17 28	drop	211234	2 1 28	lock	231234	2 17 28	sell
111241	1 1 29	adjust	131241	1 17 29	drum	211241	2 1 29	logic	231241	2 17 29	seminar
111242	1 1 30	admit	131242	1 17 30	dry	211242	2 1 30	lonely	231242	2 17 30	senior
111243	1 1 31	adult	131243	1 17 31	duck	211243	2 1 31	long	231243	2 17 31	sense
111244	1 1 32	advance	131244	1 17 32	dumb	211244	2 1 32	loop	231244	2 17 32	sentence
111311	1 2 1	advice	131311	1 18 1	dune	211311	2 2 1	lottery	231311	2 18 1	series
111312	1 2 2	aerobic	131312	1 18 2	during	211312	2 2 2	loud	231312	2 18 2	service
111313	1 2 3	affair	131313	1 18 3	dust	211313	2 2 3	lounge	231313	2 18 3	session
111314	1 2 4	afford	131314	1 18 4	dutch	211314	2 2 4	love	231314	2 18 4	settle
111321	1 2 5	afraid	131321	1 18 5	duty	211321	2 2 5	loyal	231321	2 18 5	setup
111322	1 2 6	again	131322	1 18 6	dwarf	211322	2 2 6	lucky	231322	2 18 6	seven
111323	1 2 7	age	131323	1 18 7	dynamic	211323	2 2 7	luggage	231323	2 18 7	shadow
111324	1 2 8	agent	131324	1 18 8	eager	211324	2 2 8	lumber	231324	2 18 8	shaft
111331	1 2 9	agree	131331	1 18 9	eagle	211331	2 2 9	lunar	231331	2 18 9	shallow
111332	1 2 10	ahead	131332	1 18 10	early	211332	2 2 10	lunch	231332	2 18 10	share
111333	1 2 11	aim	131333	1 18 11	earn	211333	2 2 11	luxury	231333	2 18 11	shed
111334	1 2 12	air	131334	1 18 12	earth	211334	2 2 12	lyrics	231334	2 18 12	shell
111341	1 2 13	airport	131341	1 18 13	easily	211341	2 2 13	machine	231341	2 18 13	sheriff
111342	1 2 14	aisle	131342	1 18 14	east	211342	2 2 14	mad	231342	2 18 14	shield
111343	1 2 15	alarm	131343	1 18 15	easy	211343	2 2 15	magic	231343	2 18 15	shift
111344	1 2 16	album	131344	1 18 16	echo	211344	2 2 16	magnet	231344	2 18 16	shine
111411	1 2 17	alcohol	131411	1 18 17	ecology	211411	2 2 17	maid	231411	2 18 17	ship
111412	1 2 18	alert	131412	1 18 18	economy	211412	2 2 18	mail	231412	2 18 18	shiver
111413	1 2 19	alien	131413	1 18 19	edge	211413	2 2 19	main	231413	2 18 19	shock
111414	1 2 20	all	131414	1 18 20	edit	211414	2 2 20	major	231414	2 18 20	shoe
111421	1 2 21	alley	131421	1 18 21	educate	211421	2 2 21	make	231421	2 18 21	shoot
111422	1 2 22	allow	131422	1 18 22	effort	211422	2 2 22	mammal	231422	2 18 22	shop
111423	1 2 23	almost	131423	1 18 23	egg	211423	2 2 23	man	231423	2 18 23	short
111424	1 2 24	alone	131424	1 18 24	eight	211424	2 2 24	manage	231424	2 18 24	shoulder
111431	1 2 25	alpha	131431	1 18 25	either	211431	2 2 25	mandate	231431	2 18 25	shove
111432	1 2 26	already	131432	1 18 26	elbow	211432	2 2 26	mango	231432	2 18 26	shrimp
111433	1 2 27	also	131433	1 18 27	elder	211433	2 2 27	mansion	231433	2 18 27	shrug
111434	1 2 28	alter	131434	1 18 28	electric	211434	2 2 28	manual	231434	2 18 28	shuffle
111441	1 2 29	always	131441	1 18 29	elegant	211441	2 2 29	maple	231441	2 18 29	shy
111442	1 2 30	amateur	131442	1 18 30	element	211442	2 2 30	marble	231442	2 18 30	sibling
111443	1 2 31	amazing	131443	1 18 31	elephant	211443	2 2 31	march	231443	2 18 31	sick

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
111444	1 2 32	among	131444	1 18 32	elevator	211444	2 2 32	margin	231444	2 18 32	side
112111	1 3 1	amount	132111	1 19 1	elite	212111	2 3 1	marine	232111	2 19 1	siege
112112	1 3 2	amused	132112	1 19 2	else	212112	2 3 2	market	232112	2 19 2	sight
112113	1 3 3	analyst	132113	1 19 3	embark	212113	2 3 3	marriage	232113	2 19 3	sign
112114	1 3 4	anchor	132114	1 19 4	embody	212114	2 3 4	mask	232114	2 19 4	silent
112121	1 3 5	ancient	132121	1 19 5	embrace	212121	2 3 5	mass	232121	2 19 5	silk
112122	1 3 6	anger	132122	1 19 6	emerge	212122	2 3 6	master	232122	2 19 6	silly
112123	1 3 7	angle	132123	1 19 7	emotion	212123	2 3 7	match	232123	2 19 7	silver
112124	1 3 8	angry	132124	1 19 8	employ	212124	2 3 8	material	232124	2 19 8	similar
112131	1 3 9	animal	132131	1 19 9	empower	212131	2 3 9	math	232131	2 19 9	simple
112132	1 3 10	ankle	132132	1 19 10	empty	212132	2 3 10	matrix	232132	2 19 10	since
112133	1 3 11	announce	132133	1 19 11	enable	212133	2 3 11	matter	232133	2 19 11	sing
112134	1 3 12	annual	132134	1 19 12	enact	212134	2 3 12	maximum	232134	2 19 12	siren
112141	1 3 13	another	132141	1 19 13	end	212141	2 3 13	maze	232141	2 19 13	sister
112142	1 3 14	answer	132142	1 19 14	endless	212142	2 3 14	meadow	232142	2 19 14	situate
112143	1 3 15	antenna	132143	1 19 15	endorse	212143	2 3 15	mean	232143	2 19 15	six
112144	1 3 16	antique	132144	1 19 16	enemy	212144	2 3 16	measure	232144	2 19 16	size
112211	1 3 17	anxiety	132211	1 19 17	energy	212211	2 3 17	meat	232211	2 19 17	skate
112212	1 3 18	any	132212	1 19 18	enforce	212212	2 3 18	mechanic	232212	2 19 18	sketch
112213	1 3 19	apart	132213	1 19 19	engage	212213	2 3 19	medal	232213	2 19 19	ski
112214	1 3 20	apology	132214	1 19 20	engine	212214	2 3 20	media	232214	2 19 20	skill
112221	1 3 21	appear	132221	1 19 21	enhance	212221	2 3 21	melody	232221	2 19 21	skin
112222	1 3 22	apple	132222	1 19 22	enjoy	212222	2 3 22	melt	232222	2 19 22	skirt
112223	1 3 23	approve	132223	1 19 23	enlist	212223	2 3 23	member	232223	2 19 23	skull
112224	1 3 24	april	132224	1 19 24	enough	212224	2 3 24	memory	232224	2 19 24	slab
112231	1 3 25	arch	132231	1 19 25	enrich	212231	2 3 25	mention	232231	2 19 25	slam
112232	1 3 26	arctic	132232	1 19 26	enroll	212232	2 3 26	menu	232232	2 19 26	sleep
112233	1 3 27	area	132233	1 19 27	ensure	212233	2 3 27	mercy	232233	2 19 27	slender
112234	1 3 28	arena	132234	1 19 28	enter	212234	2 3 28	merge	232234	2 19 28	slice
112241	1 3 29	argue	132241	1 19 29	entire	212241	2 3 29	merit	232241	2 19 29	slide
112242	1 3 30	arm	132242	1 19 30	entry	212242	2 3 30	merry	232242	2 19 30	slight
112243	1 3 31	armed	132243	1 19 31	envelope	212243	2 3 31	mesh	232243	2 19 31	slim
112244	1 3 32	armor	132244	1 19 32	episode	212244	2 3 32	message	232244	2 19 32	slogan
112311	1 4 1	army	132311	1 20 1	equal	212311	2 4 1	metal	232311	2 20 1	slot
112312	1 4 2	around	132312	1 20 2	equip	212312	2 4 2	method	232312	2 20 2	slow
112313	1 4 3	arrange	132313	1 20 3	era	212313	2 4 3	middle	232313	2 20 3	slush
112314	1 4 4	arrest	132314	1 20 4	erase	212314	2 4 4	midnight	232314	2 20 4	small
112321	1 4 5	arrive	132321	1 20 5	erode	212321	2 4 5	milk	232321	2 20 5	smart
112322	1 4 6	arrow	132322	1 20 6	erosion	212322	2 4 6	million	232322	2 20 6	smile
112323	1 4 7	art	132323	1 20 7	error	212323	2 4 7	mimic	232323	2 20 7	smoke
112324	1 4 8	artefact	132324	1 20 8	erupt	212324	2 4 8	mind	232324	2 20 8	smooth
112331	1 4 9	artist	132331	1 20 9	escape	212331	2 4 9	minimum	232331	2 20 9	snack
112332	1 4 10	artwork	132332	1 20 10	essay	212332	2 4 10	minor	232332	2 20 10	snake
112333	1 4 11	ask	132333	1 20 11	essence	212333	2 4 11	minute	232333	2 20 11	snap
112334	1 4 12	aspect	132334	1 20 12	estate	212334	2 4 12	miracle	232334	2 20 12	sniff
112341	1 4 13	assault	132341	1 20 13	eternal	212341	2 4 13	mirror	232341	2 20 13	snow
112342	1 4 14	asset	132342	1 20 14	ethics	212342	2 4 14	misery	232342	2 20 14	soap
112343	1 4 15	assist	132343	1 20 15	evidence	212343	2 4 15	miss	232343	2 20 15	soccer
112344	1 4 16	assume	132344	1 20 16	evil	212344	2 4 16	mistake	232344	2 20 16	social
112411	1 4 17	asthma	132411	1 20 17	evoke	212411	2 4 17	mix	232411	2 20 17	sock
112412	1 4 18	athlete	132412	1 20 18	evolve	212412	2 4 18	mixed	232412	2 20 18	soda
112413	1 4 19	atom	132413	1 20 19	exact	212413	2 4 19	mixture	232413	2 20 19	soft
112414	1 4 20	attack	132414	1 20 20	example	212414	2 4 20	mobile	232414	2 20 20	solar
112421	1 4 21	attend	132421	1 20 21	excess	212421	2 4 21	model	232421	2 20 21	soldier
112422	1 4 22	attitude	132422	1 20 22	exchange	212422	2 4 22	modify	232422	2 20 22	solid
112423	1 4 23	attract	132423	1 20 23	excite	212423	2 4 23	mom	232423	2 20 23	solution
112424	1 4 24	auction	132424	1 20 24	exclude	212424	2 4 24	moment	232424	2 20 24	solve
112431	1 4 25	audit	132431	1 20 25	excuse	212431	2 4 25	monitor	232431	2 20 25	someone
112432	1 4 26	august	132432	1 20 26	execute	212432	2 4 26	monkey	232432	2 20 26	song
112433	1 4 27	aunt	132433	1 20 27	exercise	212433	2 4 27	monster	232433	2 20 27	soon
112434	1 4 28	author	132434	1 20 28	exhaust	212434	2 4 28	month	232434	2 20 28	sorry
112441	1 4 29	auto	132441	1 20 29	exhibit	212441	2 4 29	moon	232441	2 20 29	sort
112442	1 4 30	autumn	132442	1 20 30	exile	212442	2 4 30	moral	232442	2 20 30	soul
112443	1 4 31	average	132443	1 20 31	exist	212443	2 4 31	more	232443	2 20 31	sound
112444	1 4 32	avocado	132444	1 20 32	exit	212444	2 4 32	morning	232444	2 20 32	soup
113111	1 5 1	avoid	133111	1 21 1	exotic	213111	2 5 1	mosquito	233111	2 21 1	source
113112	1 5 2	awake	133112	1 21 2	expand	213112	2 5 2	mother	233112	2 21 2	south
113113	1 5 3	aware	133113	1 21 3	expect	213113	2 5 3	motion	233113	2 21 3	space
113114	1 5 4	away	133114	1 21 4	expire	213114	2 5 4	motor	233114	2 21 4	spare
113121	1 5 5	awesome	133121	1 21 5	explain	213121	2 5 5	mountain	233121	2 21 5	spatial
113122	1 5 6	awful	133122	1 21 6	expose	213122	2 5 6	mouse	233122	2 21 6	spawn
113123	1 5 7	awkward	133123	1 21 7	express	213123	2 5 7	move	233123	2 21 7	speak
113124	1 5 8	axis	133124	1 21 8	extend	213124	2 5 8	movie	233124	2 21 8	special
113131	1 5 9	baby	133131	1 21 9	extra	213131	2 5 9	much	233131	2 21 9	speed
113132	1 5 10	bachelor	133132	1 21 10	eye	213132	2 5 10	muffin	233132	2 21 10	spell
113133	1 5 11	bacon	133133	1 21 11	eyebrow	213133	2 5 11	mule	233133	2 21 11	spend
113134	1 5 12	badge	133134	1 21 12	fabric	213134	2 5 12	multiply	233134	2 21 12	sphere
113141	1 5 13	bag	133141	1 21 13	face	213141	2 5 13	muscle	233141	2 21 13	spice
113142	1 5 14	balance	133142	1 21 14	faculty	213142	2 5 14	museum	233142	2 21 14	spider
113143	1 5 15	balcony	133143	1 21 15	fade	213143	2 5 15	mushroom	233143	2 21 15	spike
113144	1 5 16	ball	133144	1 21 16	faint	213144	2 5 16	music	233144	2 21 16	spin
113211	1 5 17	bamboo	133211	1 21 17	faith	213211	2 5 17	must	233211	2 21 17	spirit
113212	1 5 18	banana	133212	1 21 18	fall	213212	2 5 18	mutual	233212	2 21 18	split
113213	1 5 19	banner	133213	1 21 19	false	213213	2 5 19	myself	233213	2 21 19	spoil
113214	1 5 20	bar	133214	1 21 20	fame	213214	2 5 20	mystery	233214	2 21 20	sponsor
113221	1 5 21	barely	133221	1 21 21	family	213221	2 5 21	myth	233221	2 21 21	spoon
113222	1 5 22	bargain	133222	1 21 22	famous	213222	2 5 22	naive	233222	2 21 22	sport
113223	1 5 23	barrel	133223	1 21 23	fan	213223	2 5 23	name	233223	2 21 23	spot
113224	1 5 24	base	133224	1 21 24	fancy	213224	2 5 24	napkin	233224	2 21 24	spray
113231	1 5 25	basic	133231	1 21 25	fantasy	213231	2 5 25	narrow	233231	2 21 25	spread

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
113232	1 5 26	basket	133232	1 21 26	farm	213232	2 5 26	nasty	233232	2 21 26	spring
113233	1 5 27	battle	133233	1 21 27	fashion	213233	2 5 27	nation	233233	2 21 27	spy
113234	1 5 28	beach	133234	1 21 28	fat	213234	2 5 28	nature	233234	2 21 28	square
113241	1 5 29	bean	133241	1 21 29	fatal	213241	2 5 29	near	233241	2 21 29	squeeze
113242	1 5 30	beauty	133242	1 21 30	father	213242	2 5 30	neck	233242	2 21 30	squirrel
113243	1 5 31	because	133243	1 21 31	fatigue	213243	2 5 31	need	233243	2 21 31	stable
113244	1 5 32	become	133244	1 21 32	fault	213244	2 5 32	negative	233244	2 21 32	stadium
113311	1 6 1	beef	133311	1 22 1	favorite	213311	2 6 1	neglect	233311	2 22 1	staff
113312	1 6 2	before	133312	1 22 2	feature	213312	2 6 2	neither	233312	2 22 2	stage
113313	1 6 3	begin	133313	1 22 3	february	213313	2 6 3	nephew	233313	2 22 3	stairs
113314	1 6 4	behave	133314	1 22 4	federal	213314	2 6 4	nerve	233314	2 22 4	stamp
113321	1 6 5	behind	133321	1 22 5	fee	213321	2 6 5	nest	233321	2 22 5	stand
113322	1 6 6	believe	133322	1 22 6	feed	213322	2 6 6	net	233322	2 22 6	start
113323	1 6 7	below	133323	1 22 7	feel	213323	2 6 7	network	233323	2 22 7	state
113324	1 6 8	belt	133324	1 22 8	female	213324	2 6 8	neutral	233324	2 22 8	stay
113331	1 6 9	bench	133331	1 22 9	fence	213331	2 6 9	never	233331	2 22 9	steak
113332	1 6 10	benefit	133332	1 22 10	festival	213332	2 6 10	news	233332	2 22 10	steel
113333	1 6 11	best	133333	1 22 11	fetch	213333	2 6 11	next	233333	2 22 11	stem
113334	1 6 12	betray	133334	1 22 12	fever	213334	2 6 12	nice	233334	2 22 12	step
113341	1 6 13	better	133341	1 22 13	few	213341	2 6 13	night	233341	2 22 13	stereo
113342	1 6 14	between	133342	1 22 14	fiber	213342	2 6 14	noble	233342	2 22 14	stick
113343	1 6 15	beyond	133343	1 22 15	fiction	213343	2 6 15	noise	233343	2 22 15	still
113344	1 6 16	bicycle	133344	1 22 16	field	213344	2 6 16	nominee	233344	2 22 16	sting
113411	1 6 17	bid	133411	1 22 17	figure	213411	2 6 17	noodle	233411	2 22 17	stock
113412	1 6 18	bike	133412	1 22 18	file	213412	2 6 18	normal	233412	2 22 18	stomach
113413	1 6 19	bind	133413	1 22 19	film	213413	2 6 19	north	233413	2 22 19	stone
113414	1 6 20	biology	133414	1 22 20	filter	213414	2 6 20	nose	233414	2 22 20	stool
113421	1 6 21	bird	133421	1 22 21	final	213421	2 6 21	notable	233421	2 22 21	story
113422	1 6 22	birth	133422	1 22 22	find	213422	2 6 22	note	233422	2 22 22	stove
113423	1 6 23	bitter	133423	1 22 23	fine	213423	2 6 23	nothing	233423	2 22 23	strategy
113424	1 6 24	black	133424	1 22 24	finger	213424	2 6 24	notice	233424	2 22 24	street
113431	1 6 25	blade	133431	1 22 25	finish	213431	2 6 25	novel	233431	2 22 25	strike
113432	1 6 26	blame	133432	1 22 26	fire	213432	2 6 26	now	233432	2 22 26	strong
113433	1 6 27	blanket	133433	1 22 27	firm	213433	2 6 27	nuclear	233433	2 22 27	struggle
113434	1 6 28	blast	133434	1 22 28	first	213434	2 6 28	number	233434	2 22 28	student
113441	1 6 29	bleak	133441	1 22 29	fiscal	213441	2 6 29	nurse	233441	2 22 29	stuff
113442	1 6 30	bless	133442	1 22 30	fish	213442	2 6 30	nut	233442	2 22 30	stumble
113443	1 6 31	blind	133443	1 22 31	fit	213443	2 6 31	oak	233443	2 22 31	style
113444	1 6 32	blood	133444	1 22 32	fitness	213444	2 6 32	obey	233444	2 22 32	subject
114111	1 7 1	blossom	134111	1 23 1	fix	214111	2 7 1	object	234111	2 23 1	submit
114112	1 7 2	blouse	134112	1 23 2	flag	214112	2 7 2	oblige	234112	2 23 2	subway
114113	1 7 3	blue	134113	1 23 3	flame	214113	2 7 3	obscure	234113	2 23 3	success
114114	1 7 4	blur	134114	1 23 4	flash	214114	2 7 4	observe	234114	2 23 4	such
114121	1 7 5	blush	134121	1 23 5	flat	214121	2 7 5	obtain	234121	2 23 5	sudden
114122	1 7 6	board	134122	1 23 6	flavor	214122	2 7 6	obvious	234122	2 23 6	suffer
114123	1 7 7	boat	134123	1 23 7	flee	214123	2 7 7	occur	234123	2 23 7	sugar
114124	1 7 8	body	134124	1 23 8	flight	214124	2 7 8	ocean	234124	2 23 8	suggest
114131	1 7 9	boil	134131	1 23 9	flip	214131	2 7 9	october	234131	2 23 9	suit
114132	1 7 10	bomb	134132	1 23 10	float	214132	2 7 10	odor	234132	2 23 10	summer
114133	1 7 11	bone	134133	1 23 11	flock	214133	2 7 11	off	234133	2 23 11	sun
114134	1 7 12	bonus	134134	1 23 12	floor	214134	2 7 12	offer	234134	2 23 12	sunny
114141	1 7 13	book	134141	1 23 13	flower	214141	2 7 13	office	234141	2 23 13	sunset
114142	1 7 14	boost	134142	1 23 14	fluid	214142	2 7 14	often	234142	2 23 14	super
114143	1 7 15	border	134143	1 23 15	flush	214143	2 7 15	oil	234143	2 23 15	supply
114144	1 7 16	boring	134144	1 23 16	fly	214144	2 7 16	okay	234144	2 23 16	supreme
114211	1 7 17	borrow	134211	1 23 17	foam	214211	2 7 17	old	234211	2 23 17	sure
114212	1 7 18	boss	134212	1 23 18	focus	214212	2 7 18	olive	234212	2 23 18	surface
114213	1 7 19	bottom	134213	1 23 19	fog	214213	2 7 19	olympic	234213	2 23 19	surge
114214	1 7 20	bounce	134214	1 23 20	foil	214214	2 7 20	omit	234214	2 23 20	surprise
114221	1 7 21	box	134221	1 23 21	fold	214221	2 7 21	once	234221	2 23 21	surround
114222	1 7 22	boy	134222	1 23 22	follow	214222	2 7 22	one	234222	2 23 22	survey
114223	1 7 23	bracket	134223	1 23 23	food	214223	2 7 23	onion	234223	2 23 23	suspect
114224	1 7 24	brain	134224	1 23 24	foot	214224	2 7 24	online	234224	2 23 24	sustain
114231	1 7 25	brand	134231	1 23 25	force	214231	2 7 25	only	234231	2 23 25	swallow
114232	1 7 26	brass	134232	1 23 26	forest	214232	2 7 26	open	234232	2 23 26	swamp
114233	1 7 27	brave	134233	1 23 27	forget	214233	2 7 27	opera	234233	2 23 27	swap
114234	1 7 28	bread	134234	1 23 28	fork	214234	2 7 28	opinion	234234	2 23 28	swarm
114241	1 7 29	breeze	134241	1 23 29	fortune	214241	2 7 29	oppose	234241	2 23 29	swear
114242	1 7 30	brick	134242	1 23 30	forum	214242	2 7 30	option	234242	2 23 30	sweet
114243	1 7 31	bridge	134243	1 23 31	forward	214243	2 7 31	orange	234243	2 23 31	swift
114244	1 7 32	brief	134244	1 23 32	fossil	214244	2 7 32	orbit	234244	2 23 32	swim
114311	1 8 1	bright	134311	1 24 1	foster	214311	2 8 1	orchard	234311	2 24 1	swing
114312	1 8 2	bring	134312	1 24 2	found	214312	2 8 2	order	234312	2 24 2	switch
114313	1 8 3	brisk	134313	1 24 3	fox	214313	2 8 3	ordinary	234313	2 24 3	sword
114314	1 8 4	broccoli	134314	1 24 4	fragile	214314	2 8 4	organ	234314	2 24 4	symbol
114321	1 8 5	broken	134321	1 24 5	frame	214321	2 8 5	orient	234321	2 24 5	symptom
114322	1 8 6	bronze	134322	1 24 6	frequent	214322	2 8 6	original	234322	2 24 6	syrup
114323	1 8 7	broom	134323	1 24 7	fresh	214323	2 8 7	orphan	234323	2 24 7	system
114324	1 8 8	brother	134324	1 24 8	friend	214324	2 8 8	ostrich	234324	2 24 8	table
114331	1 8 9	brown	134331	1 24 9	fringe	214331	2 8 9	other	234331	2 24 9	tackle
114332	1 8 10	brush	134332	1 24 10	frog	214332	2 8 10	outdoor	234332	2 24 10	tag
114333	1 8 11	bubble	134333	1 24 11	front	214333	2 8 11	outer	234333	2 24 11	tail
114334	1 8 12	buddy	134334	1 24 12	frost	214334	2 8 12	output	234334	2 24 12	talent
114341	1 8 13	budget	134341	1 24 13	frown	214341	2 8 13	outside	234341	2 24 13	talk
114342	1 8 14	buffalo	134342	1 24 14	frozen	214342	2 8 14	oval	234342	2 24 14	tank
114343	1 8 15	build	134343	1 24 15	fruit	214343	2 8 15	oven	234343	2 24 15	tape
114344	1 8 16	bulb	134344	1 24 16	fuel	214344	2 8 16	over	234344	2 24 16	target
114411	1 8 17	bulk	134411	1 24 17	fun	214411	2 8 17	own	234411	2 24 17	task
114412	1 8 18	bullet	134412	1 24 18	funny	214412	2 8 18	owner	234412	2 24 18	taste
114413	1 8 19	bundle	134413	1 24 19	furnace	214413	2 8 19	oxygen	234413	2 24 19	tattoo

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
114414	1 8 20	bunker	134414	1 24 20	fury	214414	2 8 20	oyster	234414	2 24 20	taxi
114421	1 8 21	burden	134421	1 24 21	future	214421	2 8 21	ozone	234421	2 24 21	teach
114422	1 8 22	burger	134422	1 24 22	gadget	214422	2 8 22	pact	234422	2 24 22	team
114423	1 8 23	burst	134423	1 24 23	gain	214423	2 8 23	paddle	234423	2 24 23	tell
114424	1 8 24	bus	134424	1 24 24	galaxy	214424	2 8 24	page	234424	2 24 24	ten
114431	1 8 25	business	134431	1 24 25	gallery	214431	2 8 25	pair	234431	2 24 25	tenant
114432	1 8 26	busy	134432	1 24 26	game	214432	2 8 26	palace	234432	2 24 26	tennis
114433	1 8 27	butter	134433	1 24 27	gap	214433	2 8 27	palm	234433	2 24 27	tent
114434	1 8 28	buyer	134434	1 24 28	garage	214434	2 8 28	panda	234434	2 24 28	term
114441	1 8 29	buzz	134441	1 24 29	garbage	214441	2 8 29	panel	234441	2 24 29	test
114442	1 8 30	cabbage	134442	1 24 30	garden	214442	2 8 30	panic	234442	2 24 30	text
114443	1 8 31	cabin	134443	1 24 31	garlic	214443	2 8 31	panther	234443	2 24 31	thank
114444	1 8 32	cable	134444	1 24 32	garment	214444	2 8 32	paper	234444	2 24 32	that
121111	1 9 1	cactus	141111	1 25 1	gas	221111	2 9 1	parade	241111	2 25 1	theme
121112	1 9 2	cage	141112	1 25 2	gasp	221112	2 9 2	parent	241112	2 25 2	then
121113	1 9 3	cake	141113	1 25 3	gate	221113	2 9 3	park	241113	2 25 3	theory
121114	1 9 4	call	141114	1 25 4	gather	221114	2 9 4	parrot	241114	2 25 4	there
121121	1 9 5	calm	141121	1 25 5	gauge	221121	2 9 5	party	241121	2 25 5	they
121122	1 9 6	camera	141122	1 25 6	gaze	221122	2 9 6	pass	241122	2 25 6	thing
121123	1 9 7	camp	141123	1 25 7	general	221123	2 9 7	patch	241123	2 25 7	this
121124	1 9 8	can	141124	1 25 8	genius	221124	2 9 8	path	241124	2 25 8	thought
121131	1 9 9	canal	141131	1 25 9	genre	221131	2 9 9	patient	241131	2 25 9	three
121132	1 9 10	cancel	141132	1 25 10	gentle	221132	2 9 10	patrol	241132	2 25 10	thrive
121133	1 9 11	candy	141133	1 25 11	genuine	221133	2 9 11	pattern	241133	2 25 11	throw
121134	1 9 12	cannon	141134	1 25 12	gesture	221134	2 9 12	pause	241134	2 25 12	thumb
121141	1 9 13	canoe	141141	1 25 13	ghost	221141	2 9 13	pave	241141	2 25 13	thunder
121142	1 9 14	canvas	141142	1 25 14	giant	221142	2 9 14	payment	241142	2 25 14	ticket
121143	1 9 15	canyon	141143	1 25 15	gift	221143	2 9 15	peace	241143	2 25 15	tide
121144	1 9 16	capable	141144	1 25 16	giggle	221144	2 9 16	peanut	241144	2 25 16	tiger
121211	1 9 17	capital	141211	1 25 17	ginger	221211	2 9 17	pear	241211	2 25 17	tilt
121212	1 9 18	captain	141212	1 25 18	giraffe	221212	2 9 18	peasant	241212	2 25 18	timber
121213	1 9 19	car	141213	1 25 19	girl	221213	2 9 19	pelican	241213	2 25 19	time
121214	1 9 20	carbon	141214	1 25 20	give	221214	2 9 20	pen	241214	2 25 20	tiny
121221	1 9 21	card	141221	1 25 21	glad	221221	2 9 21	penalty	241221	2 25 21	tip
121222	1 9 22	cargo	141222	1 25 22	glance	221222	2 9 22	pencil	241222	2 25 22	tired
121223	1 9 23	carpet	141223	1 25 23	glare	221223	2 9 23	people	241223	2 25 23	tissue
121224	1 9 24	carry	141224	1 25 24	glass	221224	2 9 24	pepper	241224	2 25 24	title
121231	1 9 25	cart	141231	1 25 25	glide	221231	2 9 25	perfect	241231	2 25 25	toast
121232	1 9 26	case	141232	1 25 26	glimpse	221232	2 9 26	permit	241232	2 25 26	tobacco
121233	1 9 27	cash	141233	1 25 27	globe	221233	2 9 27	person	241233	2 25 27	today
121234	1 9 28	casino	141234	1 25 28	gloom	221234	2 9 28	pet	241234	2 25 28	toddler
121241	1 9 29	castle	141241	1 25 29	glory	221241	2 9 29	phone	241241	2 25 29	toe
121242	1 9 30	casual	141242	1 25 30	glove	221242	2 9 30	photo	241242	2 25 30	together
121243	1 9 31	cat	141243	1 25 31	glow	221243	2 9 31	phrase	241243	2 25 31	toilet
121244	1 9 32	catalog	141244	1 25 32	glue	221244	2 9 32	physical	241244	2 25 32	token
121311	1 10 1	catch	141311	1 26 1	goat	221311	2 10 1	piano	241311	2 26 1	tomato
121312	1 10 2	category	141312	1 26 2	goddess	221312	2 10 2	picnic	241312	2 26 2	tomorrow
121313	1 10 3	cattle	141313	1 26 3	gold	221313	2 10 3	picture	241313	2 26 3	tone
121314	1 10 4	caught	141314	1 26 4	good	221314	2 10 4	piece	241314	2 26 4	tongue
121321	1 10 5	cause	141321	1 26 5	goose	221321	2 10 5	pig	241321	2 26 5	tonight
121322	1 10 6	caution	141322	1 26 6	gorilla	221322	2 10 6	pigeon	241322	2 26 6	tool
121323	1 10 7	caution	141323	1 26 7	gospel	221323	2 10 7	pill	241323	2 26 7	tooth
121324	1 10 8	ceiling	141324	1 26 8	gossip	221324	2 10 8	pilot	241324	2 26 8	top
121331	1 10 9	celery	141331	1 26 9	govern	221331	2 10 9	pink	241331	2 26 9	topic
121332	1 10 10	cement	141332	1 26 10	gown	221332	2 10 10	pioneer	241332	2 26 10	topple
121333	1 10 11	census	141333	1 26 11	grab	221333	2 10 11	pipe	241333	2 26 11	torch
121334	1 10 12	century	141334	1 26 12	grace	221334	2 10 12	pistol	241334	2 26 12	tornado
121341	1 10 13	cereal	141341	1 26 13	grain	221341	2 10 13	pitch	241341	2 26 13	tortoise
121342	1 10 14	certain	141342	1 26 14	grant	221342	2 10 14	pizza	241342	2 26 14	toss
121343	1 10 15	chair	141343	1 26 15	grape	221343	2 10 15	place	241343	2 26 15	total
121344	1 10 16	chalk	141344	1 26 16	grass	221344	2 10 16	planet	241344	2 26 16	tourist
121411	1 10 17	champion	141411	1 26 17	gravity	221411	2 10 17	plastic	241411	2 26 17	toward
121412	1 10 18	change	141412	1 26 18	great	221412	2 10 18	plate	241412	2 26 18	tower
121413	1 10 19	chaos	141413	1 26 19	green	221413	2 10 19	play	241413	2 26 19	town
121414	1 10 20	chapter	141414	1 26 20	grid	221414	2 10 20	please	241414	2 26 20	toy
121421	1 10 21	charge	141421	1 26 21	grief	221421	2 10 21	pledge	241421	2 26 21	track
121422	1 10 22	chase	141422	1 26 22	grit	221422	2 10 22	pluck	241422	2 26 22	trade
121423	1 10 23	chat	141423	1 26 23	grocery	221423	2 10 23	plug	241423	2 26 23	traffic
121424	1 10 24	cheap	141424	1 26 24	group	221424	2 10 24	plunge	241424	2 26 24	tragic
121431	1 10 25	check	141431	1 26 25	grow	221431	2 10 25	poem	241431	2 26 25	train
121432	1 10 26	cheese	141432	1 26 26	grunt	221432	2 10 26	poet	241432	2 26 26	transfer
121433	1 10 27	chef	141433	1 26 27	guard	221433	2 10 27	point	241433	2 26 27	trap
121434	1 10 28	cherry	141434	1 26 28	guess	221434	2 10 28	polar	241434	2 26 28	trash
121441	1 10 29	chest	141441	1 26 29	guide	221441	2 10 29	pole	241441	2 26 29	travel
121442	1 10 30	chicken	141442	1 26 30	guilt	221442	2 10 30	police	241442	2 26 30	tray
121443	1 10 31	chief	141443	1 26 31	guitar	221443	2 10 31	pond	241443	2 26 31	treat
121444	1 10 32	child	141444	1 26 32	gun	221444	2 10 32	pony	241444	2 26 32	tree
122111	1 11 1	chimney	142111	1 27 1	gym	222111	2 11 1	pool	242111	2 27 1	trend
122112	1 11 2	choice	142112	1 27 2	habit	222112	2 11 2	popular	242112	2 27 2	trial
122113	1 11 3	choose	142113	1 27 3	hair	222113	2 11 3	portion	242113	2 27 3	tribe
122114	1 11 4	chronic	142114	1 27 4	half	222114	2 11 4	position	242114	2 27 4	trick
122121	1 11 5	chuckle	142121	1 27 5	hammer	222121	2 11 5	possible	242121	2 27 5	trigger
122122	1 11 6	chunk	142122	1 27 6	hamster	222122	2 11 6	post	242122	2 27 6	trim
122123	1 11 7	churn	142123	1 27 7	hand	222123	2 11 7	potato	242123	2 27 7	trip
122124	1 11 8	cigar	142124	1 27 8	happy	222124	2 11 8	pottery	242124	2 27 8	trophy
122131	1 11 9	cinnamon	142131	1 27 9	harbor	222131	2 11 9	poverty	242131	2 27 9	trouble
122132	1 11 10	circle	142132	1 27 10	hard	222132	2 11 10	powder	242132	2 27 10	truck
122133	1 11 11	citizen	142133	1 27 11	harsh	222133	2 11 11	power	242133	2 27 11	true
122134	1 11 12	city	142134	1 27 12	harvest	222134	2 11 12	practice	242134	2 27 12	truly
122141	1 11 13	civil	142141	1 27 13	hat	222141	2 11 13	praise	242141	2 27 13	trumpet

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
122142	1 11 14	claim	142142	1 27 14	have	222142	2 11 14	predict	242142	2 27 14	trust
122143	1 11 15	clap	142143	1 27 15	hawk	222143	2 11 15	prefer	242143	2 27 15	truth
122144	1 11 16	clarify	142144	1 27 16	hazard	222144	2 11 16	prepare	242144	2 27 16	try
122211	1 11 17	claw	142211	1 27 17	head	222211	2 11 17	present	242211	2 27 17	tube
122212	1 11 18	clay	142212	1 27 18	health	222212	2 11 18	pretty	242212	2 27 18	tuition
122213	1 11 19	clean	142213	1 27 19	heart	222213	2 11 19	prevent	242213	2 27 19	tumble
122214	1 11 20	clerk	142214	1 27 20	heavy	222214	2 11 20	price	242214	2 27 20	tuna
122221	1 11 21	clever	142221	1 27 21	hedgehog	222221	2 11 21	pride	242221	2 27 21	tunnel
122222	1 11 22	click	142222	1 27 22	height	222222	2 11 22	primary	242222	2 27 22	turkey
122223	1 11 23	client	142223	1 27 23	hello	222223	2 11 23	print	242223	2 27 23	turn
122224	1 11 24	cliff	142224	1 27 24	helmet	222224	2 11 24	priority	242224	2 27 24	turtle
122231	1 11 25	climb	142231	1 27 25	help	222231	2 11 25	prison	242231	2 27 25	twelve
122232	1 11 26	clinic	142232	1 27 26	hen	222232	2 11 26	private	242232	2 27 26	twenty
122233	1 11 27	clip	142233	1 27 27	hero	222233	2 11 27	prize	242233	2 27 27	twice
122234	1 11 28	clock	142234	1 27 28	hidden	222234	2 11 28	problem	242234	2 27 28	twin
122241	1 11 29	clog	142241	1 27 29	high	222241	2 11 29	process	242241	2 27 29	twist
122242	1 11 30	close	142242	1 27 30	hill	222242	2 11 30	produce	242242	2 27 30	two
122243	1 11 31	cloth	142243	1 27 31	hint	222243	2 11 31	profit	242243	2 27 31	type
122244	1 11 32	cloud	142244	1 27 32	hip	222244	2 11 32	program	242244	2 27 32	typical
122311	1 12 1	clown	142311	1 28 1	hire	222311	2 12 1	project	242311	2 28 1	ugly
122312	1 12 2	club	142312	1 28 2	history	222312	2 12 2	promote	242312	2 28 2	umbrella
122313	1 12 3	clump	142313	1 28 3	hobby	222313	2 12 3	proof	242313	2 28 3	unable
122314	1 12 4	cluster	142314	1 28 4	hockey	222314	2 12 4	property	242314	2 28 4	unaware
122321	1 12 5	clutch	142321	1 28 5	hold	222321	2 12 5	prosper	242321	2 28 5	uncle
122322	1 12 6	coach	142322	1 28 6	hole	222322	2 12 6	protect	242322	2 28 6	uncover
122323	1 12 7	coast	142323	1 28 7	holiday	222323	2 12 7	proud	242323	2 28 7	under
122324	1 12 8	coconut	142324	1 28 8	hollow	222324	2 12 8	provide	242324	2 28 8	undo
122331	1 12 9	code	142331	1 28 9	home	222331	2 12 9	public	242331	2 28 9	unfair
122332	1 12 10	coffee	142332	1 28 10	honey	222332	2 12 10	pudding	242332	2 28 10	unfold
122333	1 12 11	coil	142333	1 28 11	hood	222333	2 12 11	pull	242333	2 28 11	unhappy
122334	1 12 12	coin	142334	1 28 12	hope	222334	2 12 12	pulp	242334	2 28 12	uniform
122341	1 12 13	collect	142341	1 28 13	horn	222341	2 12 13	pulse	242341	2 28 13	unique
122342	1 12 14	color	142342	1 28 14	horror	222342	2 12 14	pumpkin	242342	2 28 14	unit
122343	1 12 15	column	142343	1 28 15	horse	222343	2 12 15	punch	242343	2 28 15	universe
122344	1 12 16	combine	142344	1 28 16	hospital	222344	2 12 16	pupil	242344	2 28 16	unknown
122411	1 12 17	come	142411	1 28 17	host	222411	2 12 17	puppy	242411	2 28 17	unlock
122412	1 12 18	comfort	142412	1 28 18	hotel	222412	2 12 18	purchase	242412	2 28 18	until
122413	1 12 19	comic	142413	1 28 19	hour	222413	2 12 19	purity	242413	2 28 19	unusual
122414	1 12 20	common	142414	1 28 20	hover	222414	2 12 20	purpose	242414	2 28 20	unveil
122421	1 12 21	company	142421	1 28 21	hub	222421	2 12 21	purse	242421	2 28 21	update
122422	1 12 22	concert	142422	1 28 22	huge	222422	2 12 22	push	242422	2 28 22	upgrade
122423	1 12 23	conduct	142423	1 28 23	human	222423	2 12 23	put	242423	2 28 23	uphold
122424	1 12 24	confirm	142424	1 28 24	humble	222424	2 12 24	puzzle	242424	2 28 24	upon
122431	1 12 25	Congress	142431	1 28 25	humor	222431	2 12 25	pyramid	242431	2 28 25	upper
122432	1 12 26	connect	142432	1 28 26	hundred	222432	2 12 26	quality	242432	2 28 26	upset
122433	1 12 27	consider	142433	1 28 27	hungry	222433	2 12 27	quantum	242433	2 28 27	urban
122434	1 12 28	control	142434	1 28 28	hunt	222434	2 12 28	quarter	242434	2 28 28	urge
122441	1 12 29	convince	142441	1 28 29	hurdle	222441	2 12 29	question	242441	2 28 29	usage
122442	1 12 30	cook	142442	1 28 30	hurry	222442	2 12 30	quick	242442	2 28 30	use
122443	1 12 31	cool	142443	1 28 31	hurt	222443	2 12 31	quit	242443	2 28 31	used
122444	1 12 32	copper	142444	1 28 32	husband	222444	2 12 32	quiz	242444	2 28 32	useful
123111	1 13 1	copy	143111	1 29 1	hybrid	223111	2 13 1	quote	243111	2 29 1	useless
123112	1 13 2	coral	143112	1 29 2	ice	223112	2 13 2	rabbit	243112	2 29 2	usual
123113	1 13 3	core	143113	1 29 3	icon	223113	2 13 3	raccoon	243113	2 29 3	utility
123114	1 13 4	corn	143114	1 29 4	idea	223114	2 13 4	race	243114	2 29 4	vacant
123121	1 13 5	correct	143121	1 29 5	identify	223121	2 13 5	rack	243121	2 29 5	vacuum
123122	1 13 6	cost	143122	1 29 6	idle	223122	2 13 6	radar	243122	2 29 6	vague
123123	1 13 7	cotton	143123	1 29 7	ignore	223123	2 13 7	radio	243123	2 29 7	valid
123124	1 13 8	couch	143124	1 29 8	ill	223124	2 13 8	rail	243124	2 29 8	valley
123131	1 13 9	country	143131	1 29 9	illegal	223131	2 13 9	rain	243131	2 29 9	valve
123132	1 13 10	couple	143132	1 29 10	illness	223132	2 13 10	raise	243132	2 29 10	van
123133	1 13 11	course	143133	1 29 11	image	223133	2 13 11	rally	243133	2 29 11	vanish
123134	1 13 12	cousin	143134	1 29 12	imitate	223134	2 13 12	ramp	243134	2 29 12	vapor
123141	1 13 13	cover	143141	1 29 13	immense	223141	2 13 13	ranch	243141	2 29 13	various
123142	1 13 14	coyote	143142	1 29 14	immune	223142	2 13 14	random	243142	2 29 14	vast
123143	1 13 15	crack	143143	1 29 15	impact	223143	2 13 15	range	243143	2 29 15	vault
123144	1 13 16	cradle	143144	1 29 16	impose	223144	2 13 16	rapid	243144	2 29 16	vehicle
123211	1 13 17	craft	143211	1 29 17	improve	223211	2 13 17	rare	243211	2 29 17	velvet
123212	1 13 18	cram	143212	1 29 18	impulse	223212	2 13 18	rate	243212	2 29 18	vendor
123213	1 13 19	crane	143213	1 29 19	inch	223213	2 13 19	rather	243213	2 29 19	venture
123214	1 13 20	crash	143214	1 29 20	include	223214	2 13 20	raven	243214	2 29 20	venue
123221	1 13 21	crater	143221	1 29 21	income	223221	2 13 21	raw	243221	2 29 21	verb
123222	1 13 22	crawl	143222	1 29 22	increase	223222	2 13 22	razor	243222	2 29 22	verify
123223	1 13 23	crazy	143223	1 29 23	index	223223	2 13 23	ready	243223	2 29 23	version
123224	1 13 24	cream	143224	1 29 24	indicate	223224	2 13 24	real	243224	2 29 24	very
123231	1 13 25	credit	143231	1 29 25	indoor	223231	2 13 25	reason	243231	2 29 25	vessel
123232	1 13 26	creek	143232	1 29 26	industry	223232	2 13 26	rebel	243232	2 29 26	veteran
123233	1 13 27	crew	143233	1 29 27	infant	223233	2 13 27	rebuild	243233	2 29 27	viable
123234	1 13 28	cricket	143234	1 29 28	inflict	223234	2 13 28	recall	243234	2 29 28	vibrant
123241	1 13 29	crime	143241	1 29 29	inform	223241	2 13 29	receive	243241	2 29 29	vicious
123242	1 13 30	crisp	143242	1 29 30	inhale	223242	2 13 30	recipe	243242	2 29 30	victory
123243	1 13 31	critic	143243	1 29 31	inherit	223243	2 13 31	record	243243	2 29 31	video
123244	1 13 32	crop	143244	1 29 32	initial	223244	2 13 32	recycle	243244	2 29 32	view
123311	1 14 1	cross	143311	1 30 1	inject	223311	2 14 1	reduce	243311	2 30 1	village
123312	1 14 2	crouch	143312	1 30 2	injury	223312	2 14 2	reflect	243312	2 30 2	vintage
123313	1 14 3	crowd	143313	1 30 3	inmate	223313	2 14 3	reform	243313	2 30 3	violin
123314	1 14 4	crucial	143314	1 30 4	inner	223314	2 14 4	refuse	243314	2 30 4	virtual
123321	1 14 5	cruel	143321	1 30 5	innocent	223321	2 14 5	region	243321	2 30 5	virus
123322	1 14 6	cruise	143322	1 30 6	input	223322	2 14 6	regret	243322	2 30 6	visa
123323	1 14 7	crumble	143323	1 30 7	inquiry	223323	2 14 7	regular	243323	2 30 7	visit

d4	d32	Word	d4	d32	Word	d4	d32	Word	d4	d32	Word
123324	1 14 8	crunch	143324	1 30 8	insane	223324	2 14 8	reject	243324	2 30 8	visual
123331	1 14 9	crush	143331	1 30 9	insect	223331	2 14 9	relax	243331	2 30 9	vital
123332	1 14 10	cry	143332	1 30 10	inside	223332	2 14 10	release	243332	2 30 10	vivid
123333	1 14 11	crystal	143333	1 30 11	inspire	223333	2 14 11	relief	243333	2 30 11	vocal
123334	1 14 12	cube	143334	1 30 12	install	223334	2 14 12	rely	243334	2 30 12	voice
123341	1 14 13	culture	143341	1 30 13	intact	223341	2 14 13	remain	243341	2 30 13	void
123342	1 14 14	cup	143342	1 30 14	interest	223342	2 14 14	remember	243342	2 30 14	volcano
123343	1 14 15	cupboard	143343	1 30 15	into	223343	2 14 15	remind	243343	2 30 15	volume
123344	1 14 16	curious	143344	1 30 16	invest	223344	2 14 16	remove	243344	2 30 16	vote
123411	1 14 17	current	143411	1 30 17	invite	223411	2 14 17	render	243411	2 30 17	voyage
123412	1 14 18	curtain	143412	1 30 18	involve	223412	2 14 18	renew	243412	2 30 18	wage
123413	1 14 19	curve	143413	1 30 19	iron	223413	2 14 19	rent	243413	2 30 19	wagon
123414	1 14 20	cushion	143414	1 30 20	island	223414	2 14 20	reopen	243414	2 30 20	wait
123421	1 14 21	custom	143421	1 30 21	isolate	223421	2 14 21	repair	243421	2 30 21	walk
123422	1 14 22	cute	143422	1 30 22	issue	223422	2 14 22	repeat	243422	2 30 22	wall
123423	1 14 23	cycle	143423	1 30 23	item	223423	2 14 23	replace	243423	2 30 23	walnut
123424	1 14 24	dad	143424	1 30 24	ivory	223424	2 14 24	report	243424	2 30 24	want
123431	1 14 25	damage	143431	1 30 25	jacket	223431	2 14 25	require	243431	2 30 25	warfare
123432	1 14 26	damp	143432	1 30 26	jaguar	223432	2 14 26	rescue	243432	2 30 26	warm
123433	1 14 27	dance	143433	1 30 27	jar	223433	2 14 27	resemble	243433	2 30 27	warrior
123434	1 14 28	danger	143434	1 30 28	jazz	223434	2 14 28	resist	243434	2 30 28	wash
123441	1 14 29	daring	143441	1 30 29	jealous	223441	2 14 29	resource	243441	2 30 29	wasp
123442	1 14 30	dash	143442	1 30 30	jeans	223442	2 14 30	response	243442	2 30 30	waste
123443	1 14 31	daughter	143443	1 30 31	jelly	223443	2 14 31	result	243443	2 30 31	water
123444	1 14 32	dawn	143444	1 30 32	jewel	223444	2 14 32	retire	243444	2 30 32	wave
124111	1 15 1	day	144111	1 31 1	job	224111	2 15 1	retreat	244111	2 31 1	way
124112	1 15 2	deal	144112	1 31 2	join	224112	2 15 2	return	244112	2 31 2	wealth
124113	1 15 3	debate	144113	1 31 3	joke	224113	2 15 3	reunion	244113	2 31 3	weapon
124114	1 15 4	debris	144114	1 31 4	journey	224114	2 15 4	reveal	244114	2 31 4	wear
124121	1 15 5	decade	144121	1 31 5	joy	224121	2 15 5	review	244121	2 31 5	weasel
124122	1 15 6	december	144122	1 31 6	judge	224122	2 15 6	reward	244122	2 31 6	weather
124123	1 15 7	decide	144123	1 31 7	juice	224123	2 15 7	rhythm	244123	2 31 7	web
124124	1 15 8	decline	144124	1 31 8	jump	224124	2 15 8	rib	244124	2 31 8	wedding
124131	1 15 9	decorate	144131	1 31 9	jungle	224131	2 15 9	ribbon	244131	2 31 9	weekend
124132	1 15 10	decrease	144132	1 31 10	junior	224132	2 15 10	rice	244132	2 31 10	weird
124133	1 15 11	deer	144133	1 31 11	junk	224133	2 15 11	rich	244133	2 31 11	welcome
124134	1 15 12	defense	144134	1 31 12	just	224134	2 15 12	ride	244134	2 31 12	west
124141	1 15 13	define	144141	1 31 13	kangaroo	224141	2 15 13	ridge	244141	2 31 13	wet
124142	1 15 14	defy	144142	1 31 14	keen	224142	2 15 14	rifle	244142	2 31 14	whale
124143	1 15 15	degree	144143	1 31 15	keep	224143	2 15 15	right	244143	2 31 15	what
124144	1 15 16	delay	144144	1 31 16	ketchup	224144	2 15 16	rigid	244144	2 31 16	wheat
124211	1 15 17	deliver	144211	1 31 17	key	224211	2 15 17	ring	244211	2 31 17	wheel
124212	1 15 18	demand	144212	1 31 18	kick	224212	2 15 18	riot	244212	2 31 18	when
124213	1 15 19	demise	144213	1 31 19	kid	224213	2 15 19	ripple	244213	2 31 19	where
124214	1 15 20	denial	144214	1 31 20	kidney	224214	2 15 20	risk	244214	2 31 20	whip
124221	1 15 21	dentist	144221	1 31 21	kind	224221	2 15 21	ritual	244221	2 31 21	whisper
124222	1 15 22	deny	144222	1 31 22	kingdom	224222	2 15 22	rival	244222	2 31 22	wide
124223	1 15 23	depart	144223	1 31 23	kiss	224223	2 15 23	river	244223	2 31 23	width
124224	1 15 24	depend	144224	1 31 24	kit	224224	2 15 24	road	244224	2 31 24	wife
124231	1 15 25	deposit	144231	1 31 25	kitchen	224231	2 15 25	roast	244231	2 31 25	wild
124232	1 15 26	depth	144232	1 31 26	kite	224232	2 15 26	robot	244232	2 31 26	will
124233	1 15 27	deputy	144233	1 31 27	kitten	224233	2 15 27	robust	244233	2 31 27	win
124234	1 15 28	derive	144234	1 31 28	kiwi	224234	2 15 28	rocket	244234	2 31 28	window
124241	1 15 29	describe	144241	1 31 29	knee	224241	2 15 29	romance	244241	2 31 29	wine
124242	1 15 30	desert	144242	1 31 30	knife	224242	2 15 30	roof	244242	2 31 30	wing
124243	1 15 31	design	144243	1 31 31	knock	224243	2 15 31	rookie	244243	2 31 31	wink
124244	1 15 32	desk	144244	1 31 32	know	224244	2 15 32	room	244244	2 31 32	winner
124311	1 16 1	despair	144311	1 32 1	lab	224311	2 16 1	rose	244311	2 32 1	winter
124312	1 16 2	destroy	144312	1 32 2	label	224312	2 16 2	rotate	244312	2 32 2	wire
124313	1 16 3	detail	144313	1 32 3	labor	224313	2 16 3	rough	244313	2 32 3	wisdom
124314	1 16 4	detect	144314	1 32 4	ladder	224314	2 16 4	round	244314	2 32 4	wise
124321	1 16 5	develop	144321	1 32 5	lady	224321	2 16 5	route	244321	2 32 5	wish
124322	1 16 6	device	144322	1 32 6	lake	224322	2 16 6	royal	244322	2 32 6	witness
124323	1 16 7	devote	144323	1 32 7	lamp	224323	2 16 7	rubber	244323	2 32 7	wolf
124324	1 16 8	diagram	144324	1 32 8	language	224324	2 16 8	rude	244324	2 32 8	woman
124331	1 16 9	dial	144331	1 32 9	laptop	224331	2 16 9	rug	244331	2 32 9	wonder
124332	1 16 10	diamond	144332	1 32 10	large	224332	2 16 10	rule	244332	2 32 10	wood
124333	1 16 11	diary	144333	1 32 11	later	224333	2 16 11	run	244333	2 32 11	wool
124334	1 16 12	dice	144334	1 32 12	latin	224334	2 16 12	runway	244334	2 32 12	word
124341	1 16 13	diesel	144341	1 32 13	laugh	224341	2 16 13	rural	244341	2 32 13	work
124342	1 16 14	diet	144342	1 32 14	laundry	224342	2 16 14	sad	244342	2 32 14	world
124343	1 16 15	differ	144343	1 32 15	lava	224343	2 16 15	saddle	244343	2 32 15	worry
124344	1 16 16	digital	144344	1 32 16	law	224344	2 16 16	sadness	244344	2 32 16	worth
124411	1 16 17	dignity	144411	1 32 17	lawn	224411	2 16 17	safe	244411	2 32 17	wrap
124412	1 16 18	dilemma	144412	1 32 18	lawsuit	224412	2 16 18	sail	244412	2 32 18	wreck
124413	1 16 19	dinner	144413	1 32 19	layer	224413	2 16 19	salad	244413	2 32 19	wrestle
124414	1 16 20	dinosaur	144414	1 32 20	lazy	224414	2 16 20	salmon	244414	2 32 20	wrist
124421	1 16 21	direct	144421	1 32 21	leader	224421	2 16 21	salon	244421	2 32 21	write
124422	1 16 22	dirt	144422	1 32 22	leaf	224422	2 16 22	salt	244422	2 32 22	wrong
124423	1 16 23	disagree	144423	1 32 23	learn	224423	2 16 23	salute	244423	2 32 23	yard
124424	1 16 24	discover	144424	1 32 24	leave	224424	2 16 24	same	244424	2 32 24	year
124431	1 16 25	disease	144431	1 32 25	lecture	224431	2 16 25	sample	244431	2 32 25	yellow
124432	1 16 26	dish	144432	1 32 26	left	224432	2 16 26	sand	244432	2 32 26	you
124433	1 16 27	dismiss	144433	1 32 27	leg	224433	2 16 27	satisfy	244433	2 32 27	young
124434	1 16 28	disorder	144434	1 32 28	legal	224434	2 16 28	satoshi	244434	2 32 28	youth
124441	1 16 29	display	144441	1 32 29	legend	224441	2 16 29	sauce	244441	2 32 29	zebra
124442	1 16 30	distance	144442	1 32 30	leisure	224442	2 16 30	sausage	244442	2 32 30	zero
124443	1 16 31	divert	144443	1 32 31	lemon	224443	2 16 31	save	244443	2 32 31	zone
124444	1 16 32	divide	144444	1 32 32	lend	224444	2 16 32	say	244444	2 32 32	zoo