

## Breaking an Affine Cipher Using Brute Force (given ciphertext only, ciphertext is GJJQTYCQPFYL)

$\alpha$	$\beta$	Ciphertext decrypted by $x \rightarrow \alpha x + \beta$	$\alpha$	$\beta$	Ciphertext decrypted by $x \rightarrow \alpha x + \beta$	$\alpha$	$\beta$	Ciphertext decrypted by $x \rightarrow \alpha x + \beta$	$\alpha$	$\beta$	Ciphertext decrypted by $x \rightarrow \alpha x + \beta$
1	0	gjjqtycqpfyl	3	24	qzzudseurnsf	7	22	mhhezikexfiv	11	20	ippovyqodxyl
1	1	hkkruzdrqgzm	3	25	raavetfvstog	7	23	niifajlfyggjw	11	21	jqqpwrzrpeyzm
1	2	illsvaesrhan	5	0	ettcrqkcxzqd	7	24	ojjgbkmgzhkx	11	22	krrqzasqfzan
1	3	jmmtwbftsibo	5	1	fuudsrldyare	7	25	pkkhclnhaily	11	23	lssrybtrgabo
1	4	knnuxcgutjcp	5	2	gvvetsmezbsf	9	0	cddopisofativ	11	24	mttszczushbcp
1	5	loovydhvukdq	5	3	hwwfutnfactg	9	1	deepqjtpgujw	11	25	nuutadvticdq
1	6	mppwzeiwvler	5	4	ixxgvuogbduh	9	2	effqrkuqhvkx	15	0	mffgzwegrxwj
1	7	nqqxafjxwmfs	5	5	jyyhwvphcevi	9	3	fggrslvriwly	15	1	ngghaxfhsyxx
1	8	orrybgkyxngt	5	6	kzzixwqidfwj	9	4	ghhstmwjsxmz	15	2	ohhibygitzyl
1	9	psszchlzyohu	5	7	laajyxrjegxk	9	5	hiitunxtkyna	15	3	piijczhjuazm
1	10	qttadimazpiv	5	8	mbbkzyskfhyt	9	6	ijjuvoyulzob	15	4	qjjkdaikvban
1	11	ruubejnbaqjw	5	9	ncclaztlgizm	9	7	jkkvwpzvmmapc	15	5	rkklebjlwco
1	12	svvcfkocbrkx	5	10	oddbaumhjan	9	8	kllwxqawnbqd	15	6	sllmfckmxdcp
1	13	twwdglpdcslly	5	11	peenchvnikbo	9	9	lmmxyrbxocre	15	7	tmmngdlnyedq
1	14	uxxehmqedtmz	5	12	qffodcwojlcpc	9	10	mnyzscypdsf	15	8	unnohemozfer
1	15	vyyfinrfeuna	5	13	rggpedxpkmdq	9	11	noozatdzqetg	15	9	voopifnpagfs
1	16	wzzgjosgfvob	5	14	shhqfeyqlner	9	12	oppabuearfuh	15	10	wppqjgoqbhgt
1	17	xaahkpthgwp	5	15	tiirgfzrmofs	9	13	pqqbcvfbsgvi	15	11	xqqrkhprcihu
1	18	ybbilquihxqd	5	16	ujjshgasnpgt	9	14	qrrcdwgcthwj	15	12	yrrsliqsdjiv
1	19	zccjmrvjjiyre	5	17	vkktihbtoqhu	9	15	rssdexhduixk	15	13	zsstmjrtckjw
1	20	addknskwjzsf	5	18	wllujicupriv	9	16	sttefyievjyl	15	14	attunksufllkx
1	21	beelotxlkatg	5	19	xmmvkjdvqsjw	9	17	tuufgzjfwkzm	15	15	buuvoltvgmly
1	22	cffmpuymlbuh	5	20	ynnwlkewrtkx	9	18	uvvghakgxlan	15	16	cvvwpmuwhnmz
1	23	dgnqzvznmcvi	5	21	zooxmlfxsuly	9	19	vwwhiblhymbo	15	17	dwwxqnvxiona
1	24	ehhorwaondwj	5	22	appynmgytvmz	9	20	wxxijcmizncp	15	18	exxyrowyjpob
1	25	fiipsxbpoexk	5	23	bqqzonzhuwna	9	21	xyyjkdnjaodq	15	19	fyyzspzqxkpc
3	0	sbbwfugwtpuh	5	24	crrapoiavxob	9	22	yzzkleokbper	15	20	gzatqyalrqd
3	1	tccxgvhxuqvi	5	25	dssbqpbjwypc	9	23	zaalmfplcqfs	15	21	haaburzbsmre
3	2	uddyhwiyrwj	7	0	qlldmoibjnz	9	24	abbnmgqmdrgt	15	22	ibbcvsacntsf
3	3	veezixjzwsxk	7	1	rmmjnpjckna	9	25	bccnohrneshu	15	23	jcddwtbdoutg
3	4	wffajykaxtyl	7	2	snnkfoqkdlob	11	0	ovvubewujder	15	24	kddexucepvuh
3	5	xggbkzlbuzm	7	3	toolgprlempc	11	1	pwvvcfxvkefs	15	25	leefyvdfqwwi
3	6	yhhclamczvan	7	4	uppmhqsmfnqd	11	2	qxxwdgywlfgt	17	0	yxxmlsimvhsf
3	7	ziidmbndawbo	7	5	vqqnirtngore	11	3	ryyxehzxmghu	17	1	zyynmtjnwitg
3	8	ajjencoebxcp	7	6	wrrojsuohpsf	11	4	szzyfiaynhiv	17	2	azzonukoxjuh
3	9	bkkfodpfcydq	7	7	xsspktvpiqtg	11	5	taazgjbzoijw	17	3	baapovlpykvi
3	10	cllgpeqgdzer	7	8	yttqluwjruh	11	6	ubbahkcapjkk	17	4	cbbqpwqzlwj
3	11	dmmhqfrheafs	7	9	zuurmvrkxsvi	11	7	vccbildbqkly	17	5	dccrqnramxk
3	12	ennirgsifbgt	7	10	avvsnwysltwj	11	8	wddcjmeclmz	17	6	eddsryosbnyl
3	13	fooshtjgchu	7	11	bwwtloxztmuxe	11	9	xeedknfdsmna	17	7	feetszptcozm
3	14	gppktiukhdiv	7	12	cxxupaunvyl	11	10	yffelogetnob	17	8	gffutaqudpan
3	15	hqqlujvliejw	7	13	dyyvqzbvowzm	11	11	zggfmpfuopc	17	9	hggvubrveqbo
3	16	irrmvkwmjfkx	7	14	ezzwracwpxan	11	12	ahhgnqigvpqd	17	10	ihhwvcswfrcp
3	17	jssnwlxknkgly	7	15	faaxsbdxqybo	11	13	biihorjhwqre	17	11	jiixwtdxgsdq
3	18	kttoxmyolhmz	7	16	gbbytceyrzcp	11	14	cjjipskixrsf	17	12	kjjyxeyuhter
3	19	luupyznzpmi	7	17	hcczudfzsadq	11	15	dkkjqljystg	17	13	lkkzyfvziufs
3	20	mvvqzoagnjob	7	18	iddavegatber	11	16	ellkrumkztuh	17	14	mllazgawjvgt
3	21	nwwrapbrokpc	7	19	jeebwfhbucfs	11	17	fmmlsvnlauvi	17	15	nmmbahxbkwhu
3	22	oxsxbqcsplqd	7	20	kffcxgicvdgt	11	18	gnnmtwombvwj	17	16	onnchbiyclxiv
3	23	pyytcrdtqmre	7	21	lggdyhjdwehu	11	19	hoonuxpncwxx	17	17	poodcjzdmjyw

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17	18	qppedkaenzkx	21	16	mxozagotran	25	14	iffyvqmyzjqd			
17	19	rqqfelbfoaly	21	17	nyypabhpusto	25	15	jggzwrnzakre			
17	20	srrgfmcgpbmz	21	18	ozzqbcicqvtcp	25	16	khhaxsoablsf			
17	21	tsshgndhqena	21	19	paarcdjrwudq	25	17	liibytpbcmtg			
17	22	uttihoeirdob	21	20	qbbsdeksxver	25	18	mjjczuqcduh			
17	23	vuujipfjsepc	21	21	rcctefltywfs	25	19	nkkdavrdeovi			
17	24	wvkvjgqktfqd	21	22	sddufgmuzxgt	25	20	ollebwsefpwj			
17	25	xwwlkrhlugre	21	23	teevghnvayhu	25	21	pmmfcxtfgqkx			
19	0	kppsxomszrob	21	24	uffwhiowbziv	25	22	qngdyughryl			
19	1	lqqtypntaspc	21	25	vgxixjpxcajw	25	23	roohezvhiszm			
19	2	mrruzqoubtqd	23	0	izzevquehlt	25	24	sppifawijtana			
19	3	nssvarpvcure	23	1	jaafwhvfimhu	25	25	tqqjgbxjkubo			
19	4	ottwbsqwdvsf	23	2	kbbgxiwgjniv						
19	5	puuxctrxewtg	23	3	lcchyjxhkojw						
19	6	qvvydusyfxuh	23	4	mddizkyilpkx						
19	7	rwwzevtzgyvi	23	5	neejalzjmqly						
19	8	sxxafwuahzwj	23	6	offkbmaknrmz						
19	9	tyybgxvbiakx	23	7	pgglnblosna						
19	10	uzzchywcjbyl	23	8	qhhmdocmptob						
19	11	vaadizxdkczm	23	9	riinepdnqupc						
19	12	wbbejayeldan	23	10	sjjofqeorvqd						
19	13	xccfkzbzfmebo	23	11	tkkpgrfpswre						
19	14	yddglcagnfcp	23	12	ullqhsqgtxsf						
19	15	zeehmdbhogdq	23	13	vmmrithruytg						
19	16	<b>affinecipher</b>	23	14	wnsjuisvzuh						
19	17	bggjofdjgifs	23	15	xootkvjtwavi						
19	18	chhkpgekrjgt	23	16	yppulwkuxbwj						
19	19	diilqhflskhu	23	17	zqqvmlvycxk						
19	20	ejjmrigmtliv	23	18	arwrynmwzdy						
19	21	fkksnjhnumjw	23	19	bssxoznxaezm						
19	22	gllotkiovnkx	23	20	cttypaoybfan						
19	23	hmpuljpwoly	23	21	duuzqbpzcgbo						
19	24	innqvmkqxpms	23	22	evvarcqadhcp						
19	25	joornlryqna	23	23	fwwsdrbeidq						
21	0	whhyjkqydbkx	23	24	gxxctescfjer						
21	1	xiizklrzcely	23	25	hyyduftdgkfs						
21	2	yjjalmsafdmz	25	0	urkchcyklvcp						
21	3	zkkbmnbtbgena	25	1	vsslidzlmwdq						
21	4	allcnouchfob	25	2	wttmjeamxer						
21	5	bmdopvdigpc	25	3	xuunkfbnoyfs						
21	6	cnepqwejhqd	25	4	yvvolgcopzgt						
21	7	doofqrxfkire	25	5	zwwpmhdpqahu						
21	8	eppgrsygljsf	25	6	axxqnieqrbiv						
21	9	fqqhstzhmktg	25	7	byyrojfrscjw						
21	10	grrituainluh	25	8	czzspkgstdkx						
21	11	hssjuvbjomvi	25	9	daatqlhtuely						
21	12	ittkvwckpnwj	25	10	ebburmiuvfmz						
21	13	juulwxdlqoxk	25	11	fccvsnjvwgna						
21	14	kvvmxyemrpyl	25	12	gddwtokwxhob						
21	15	lwwnyzfnsqzm	25	13	heexuplxypc						