Shamir’s Secret Sharing Codex

revision alpha-4.6

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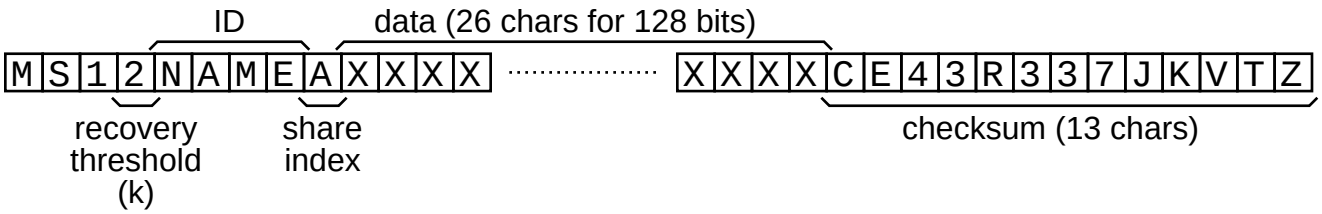
MATERIALS: Scissors, X-Acto knife, brass fasteners

CONSTRUCTION:
The bottom discs are the discs with a small circle in the center of them.
The top discs are the discs with a small cross in the centre. All the top discs are identical. Cut out each disc.
Cut out the small centre circle in each the bottom discs. Cut out each of the 32 squares of each top disc.
Cut a slit along one one of the small lines of the cross in each of the top discs.
Pass the brass fastener through a top disc and bottom disc.
Fold the legs of the fastener apart to secure the top and bottom discs together.
The two discs should now be able to rotate about their common centre.

SECRET RECOVERY:
Find 2 of your secured shares.
Make sure all your shares have the same identifier and a valid checksum (see checksum worksheet).
Dial the recover share disc to the share index of the first secured share (the 5th character).
Look up the symbol associated with the share index of the other share.
Set your translation disc to that symbol and translate the first secured share by looking up every charater in turn.
Dial the recover share disc to the share index of the second secured share (the 5th character).
Look up the symbol associated with the share index of the first share.
Set your translation disc to that symbol and translate the second secured share by looking up every charater in turn.
Add the two translated shares, character by character, using the Addition disc.
The result is your secret share and will have share index S and a valid checksum.

Data Format



Bech32 to Binary Conversion

A: 11101	K: 10110	T: 01011	2: 01010
C: 11000	L: 11111	U: 11100	3: 10001
D: 01101	M: 11011	V: 01100	4: 10101
E: 11001	N: 10011	W: 01110	5: 10100
F: 01001	P: 00001	X: 00110	6: 11010
G: 01000	Q: 00000	Y: 00100	7: 11110
H: 10111	R: 00011	Z: 00010	8: 00111
J: 10010	S: 10000	0: 01111	9: 00101

Binary to Bech32 Conversion

00000: Q	01000: G	10000: S	11000: C
00001: P	01001: F	10001: 3	11001: E
00010: Z	01010: 2	10010: J	11010: 6
00011: R	01011: T	10011: N	11011: M
00100: Y	01100: V	10100: 5	11100: U
00101: 9	01101: D	10101: 4	11101: A
00110: X	01110: W	10110: K	11110: 7
00111: 8	01111: 0	10111: H	11111: L

Symbols

▫ Aleph	α Alpha	β Beta	Γ Gamma
Δ Delta	ε Epsilon	η Eta	ϴ Theta
Λ Lambda	μ Mu	Ξ Xi	Π Pi
ρ Rho	Σ Sigma	Φ Phi	Ψ Psi
Ω Omega	@ At	# Hash	% Percent
¢ Cent	¥ Yen	€ Euro	¤ Scarab
▫ Earth	† Dagger	‡ Double-dagger	§ Section
¶ Paragraph	♦ Diamond	♥ Heart	

Principal Tables

Addition

	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
A	Q	9	S	Y	5	4	2	0	T	Z	X	W	U	A	7	D	K	P	3	N	M	E	L	J	H	V	G	F	8	R	6	C
C	9	Q	4	P	3	S	0	2	W	8	R	T	E	C	M	G	N	Y	5	K	7	U	6	H	J	F	D	V	Z	X	L	A
D	S	4	Q	5	Y	9	6	L	M	J	K	7	V	D	W	A	X	3	P	R	T	F	0	Z	8	U	C	E	H	N	2	G
E	Y	P	5	Q	S	3	W	T	0	X	Z	2	C	E	6	F	J	9	4	H	L	A	M	K	N	G	V	D	R	8	7	U
F	5	3	Y	S	Q	P	7	M	L	K	J	6	G	F	2	E	Z	4	9	8	0	D	T	X	R	C	U	A	N	H	W	V
G	4	S	9	3	P	Q	L	6	7	H	N	M	F	G	T	C	R	5	Y	X	W	V	2	8	Z	E	A	U	J	K	0	D
H	2	0	6	W	7	L	Q	9	P	G	V	Y	K	H	5	8	U	T	M	E	3	N	4	C	A	X	Z	R	D	F	S	J
J	0	2	L	T	M	6	9	Q	Y	D	F	P	N	J	3	Z	E	W	7	U	5	K	S	A	C	R	8	X	G	V	4	H
K	T	W	M	0	L	7	P	Y	Q	F	D	9	H	K	4	X	A	2	6	C	S	J	5	E	U	8	R	Z	V	G	3	N
L	Z	8	J	X	K	H	G	D	F	Q	Y	V	7	L	U	0	5	R	N	3	E	M	A	S	4	W	2	T	9	P	C	6
M	X	R	K	Z	J	N	V	F	D	Y	Q	G	6	M	C	T	S	8	H	4	A	L	E	5	3	2	W	0	P	9	U	7
N	W	T	7	2	6	M	Y	P	9	V	G	Q	J	N	S	R	C	0	L	A	4	H	3	U	E	Z	X	8	F	D	5	K
P	U	E	V	C	G	F	K	N	H	7	6	J	Q	P	Z	3	2	A	D	0	8	9	R	W	T	S	5	4	M	L	X	Y
Q	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
R	7	M	W	6	2	T	5	3	4	U	C	S	Z	R	Q	N	G	L	0	D	9	8	P	V	F	J	K	H	E	A	Y	X
S	D	G	A	F	E	C	8	Z	X	0	T	R	3	S	N	Q	M	V	U	7	K	5	J	L	6	P	9	Y	2	W	H	4
T	K	N	X	J	Z	R	U	E	A	5	S	C	2	T	G	M	Q	H	8	9	D	0	F	Y	P	6	7	L	3	4	V	W
U	P	Y	3	9	4	5	T	W	2	R	8	0	A	U	L	V	H	Q	S	J	6	C	7	N	K	D	F	G	X	Z	M	E
V	3	5	P	4	9	Y	M	7	6	N	H	L	D	V	0	U	8	S	Q	Z	2	G	W	R	X	A	E	C	K	J	T	F
W	N	K	R	H	8	X	E	U	C	3	4	A	0	W	D	7	9	J	Z	Q	G	2	V	P	Y	L	M	6	5	S	F	T
X	M	7	T	L	0	W	3	5	S	E	A	4	8	X	9	K	D	6	2	G	Q	Z	Y	F	V	H	N	J	U	C	P	R
Y	E	U	F	A	D	V	N	K	J	M	L	H	9	Y	8	5	0	C	G	2	Z	Q	X	T	W	4	3	S	7	6	R	P
Z	L	6	0	M	T	2	4	S	5	A	E	3	R	Z	P	J	F	7	W	V	Y	X	Q	D	G	N	H	K	C	U	9	8
0	J	H	Z	K	X	8	C	A	E	S	5	U	W	0	V	L	Y	N	R	P	F	T	D	Q	9	7	6	M	4	3	G	2
2	H	J	8	N	R	Z	A	C	U	4	3	E	T	2	F	6	P	K	X	Y	V	W	G	9	Q	M	L	7	S	5	D	0
3	V	F	U	G	C	E	X	R	8	W	2	Z	S	3	J	P	6	D	A	L	H	4	N	7	M	Q	Y	9	T	0	K	5
4	G	D	C	V	U	A	Z	8	R	2	W	X	5	4	K	9	7	F	E	M	N	3	H	6	L	Y	Q	P	0	T	J	S
5	F	V	E	D	A	U	R	X	Z	T	0	8	4	5	H	Y	L	G	C	6	J	S	K	M	7	9	P	Q	W	2	N	3
6	8	Z	H	R	N	J	D	G	V	9	P	F	M	6	E	2	3	X	K	5	U	7	C	4	S	T	0	W	Q	Y	A	L
7	R	X	N	8	H	K	F	V	G	P	9	D	L	7	A	W	4	Z	J	S	C	6	U	3	5	0	T	2	Y	Q	E	M
8	6	L	2	7	W	0	S	4	3	C	U	5	X	8	Y	H	V	M	T	F	P	R	9	G	D	K	J	N	A	E	Q	Z
9	C	A	G	U	V	D	J	H	N	6	7	K	Y	9	X	4	W	E	F	T	R	P	8	2	0	5	S	3	L	M	Z	Q

Translation

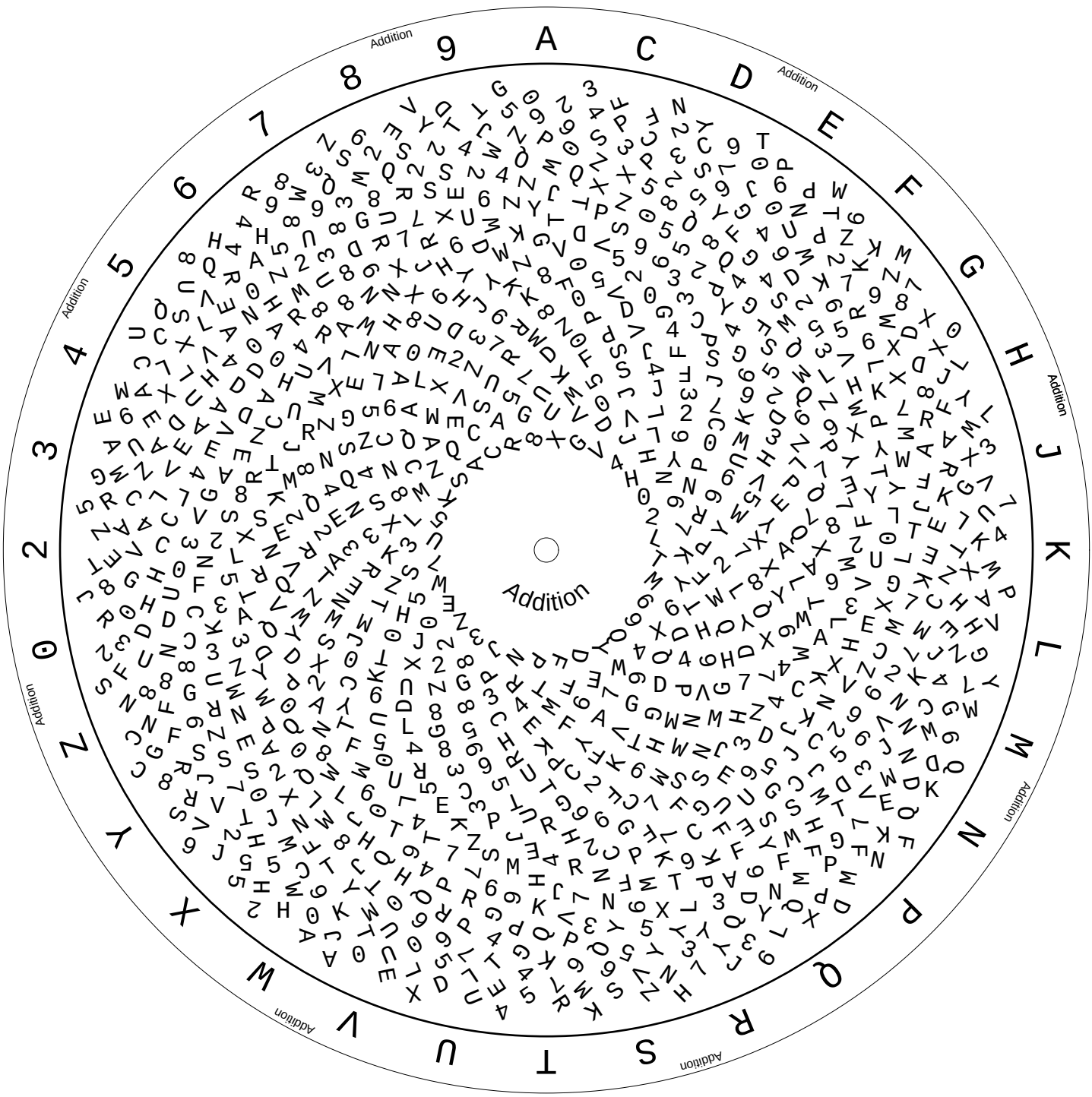
	▫	α	β	Γ	Δ	ε	η	θ	Λ	μ	Ξ	Π	ρ	Σ	Φ	Ψ	Ω	@	#	%	¢	¥	€	¤	▫	†	‡	§	¶	♦	♥
A	A	N	W	0	J	U	P	7	R	D	S	3	V	Z	L	4	G	X	M	6	8	F	5	T	K	C	9	Y	E	H	2
C	C	E	P	M	R	Z	6	L	8	X	7	Y	U	A	9	H	0	W	K	V	5	4	D	G	S	3	F	N	T	2	J
D	D	6	H	A	S	8	2	N	7	F	Y	W	R	5	E	0	Z	4	C	J	L	G	9	U	3	X	T	P	V	M	K
E	E	M	Z	L	X	Y	A	H	W	V	4	G	3	N	2	8	7	U	9	C	P	R	6	S	F	T	J	0	K	5	D
F	F	J	M	D	Y	L	K	6	N	G	P	H	7	9	V	A	5	0	X	S	E	Z	T	8	W	4	U	2	R	C	3
G	G	S	C	F	P	E	3	J	6	Z	2	M	N	T	R	D	9	A	4	Y	V	5	U	L	H	0	8	K	7	X	W
H	H	8	S	W	E	F	7	U	T	M	V	J	9	4	Z	3	X	K	P	L	G	C	0	D	6	2	A	R	5	Y	N
J	J	D	L	6	G	H	9	A	0	S	Z	8	4	2	C	N	P	7	V	F	M	Y	K	W	U	R	3	5	X	E	T
K	K	9	N	2	U	0	E	5	Z	3	8	7	G	M	D	P	H	Y	J	T	A	W	C	4	R	S	X	L	F	6	V
L	L	H	G	8	C	S	0	W	3	E	X	F	K	7	P	U	R	T	5	M	Y	V	N	J	D	9	6	4	2	Z	A
M	M	L	Y	H	V	G	N	8	U	C	R	S	T	0	5	W	4	3	2	E	Z	X	A	F	J	K	D	7	9	P	6
N	N	0	U	7	D	3	Z	4	X	6	F	T	C	Y	H	R	S	V	L	A	W	J	P	K	9	E	2	G	M	8	5
P	P	Z	R	Y	9	X	8	G	F	2	T	V	D	W	0	S	3	J	N	5	4	K	H	C	E	6	M	U	A	7	L
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
R	R	X	9	V	0	2	F	C	M	7	A	5	H	J	3	E	6	L	U	4	K	N	S	P	Z	8	Y	D	W	T	G
S	S	F	E	J	Z	M	T	D	A	Y	5	L	0	K	X	6	2	N	R	G	C	P	3	H	8	7	W	9	4	V	U
T	T	K	A	9	W	N	C	2	P	U	H	0	Y	E	J	5	L	Z	F	3	6	8	V	7	4	G	R	M	S	D	X
U	U	3	D	T	H	6	X	K	2	8	M	A	P	V	S	9	E	5	G	W	J	L	R	N	0	Z	7	C	Y	F	4
V	V	C	5	E	4	P	D	M	H	R	0	Z	W	6	K	L	N	8	T	X	2	7	J	Y	G	U	S	A	3	9	F
W	W	U	J	3	L	D	R	T	9	H	E	6	5	X	G	K	C	2	Y	8	F	M	4	A	N	P	0	V	Z	S	7
X	X	V	2	C	7	5	J	E	L	4	N	P	8	D	T	M	A	H	3	R	9	0	F	Z	Y	W	G	6	U	K	S
Y	Y	G	V	S	5	C	U	F	D	P	9	E	A	3	4	J	K	6	7	Z	X	2	W	M	L	N	H	T	0	R	8
Z	Z	Y	X	G	2	V	W	S	J	5	K	C	6	U	7	F	T	D	0	P	R	9	8	E	M	A	L	3	N	4	H
0	0	7	3	4	6	T	Y	R	V	A	J	K	E	G	8	X	F	C	H	N	U	D	Z	9	2	M	5	S	L	W	P
2	2	5	7	P	T	4	L	Z	G	K	U	R	F	H	A	Y	W	S	6	9	0	3	M	X	V	J	C	8	D	N	E
3	3	T	6	K	8	A	V	9	5	W	L	N	Z	C	F	2	M	P	S	U	D	H	X	0	7	Y	4	E	G	J	R
4	4	R	K	X	N	9	S	V	E	0	6	2	L	F	U	C	D	M	W	7	T	A	G	5	P	H	Z	J	8	3	Y
5	5	P	4	Z	K	R	H	Y	S	9	3	X	J	8	N	G	U	F	A	2	7	T	L	V	C	D	E	W	6	0	M
6	6	A	8	N	F	W	5	0	4	J	G	U	X	P	M	7	Y	R	E	D	H	S	2	3	T	V	K	Z	C	L	9
7	7	4	T	R	A	K	G	X	C	N	D	9	M	S	W	V	J	E	8	0	3	6	Y	2	5	L	P	F	H	U	Z
8	8	W	F	U	M	J	4	3	K	L	C	D	2	R	Y	T	V	9	Z	H	S	E	7	6	A	5	N	X	P	G	0
9	9	2	0	5	3	7	M	P	Y	T	W	4	S	L	6	Z	8	G	D	K	N	U	E	R	X	F	V	H	J	A	C

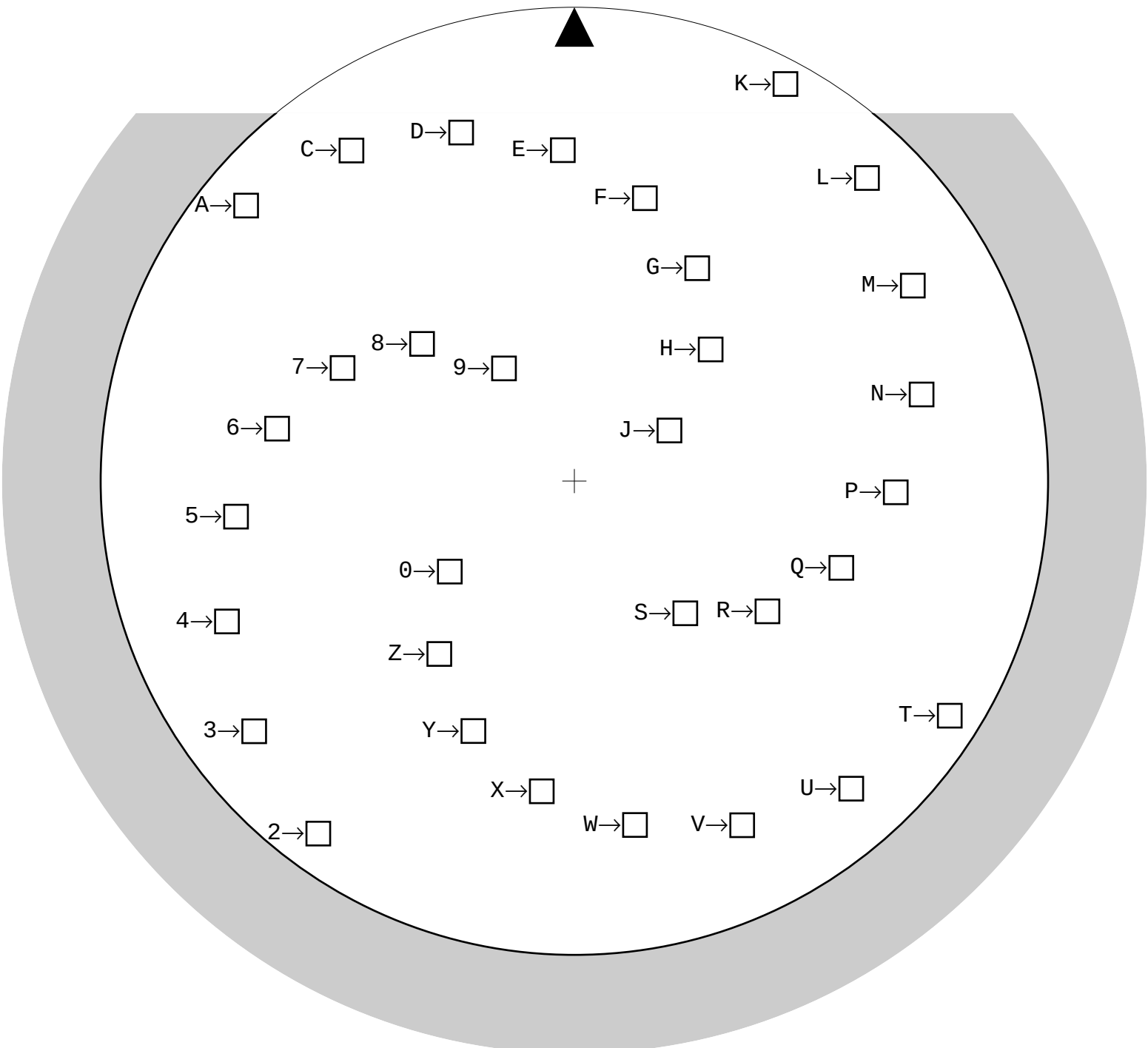
Recovery

	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
A	×	#	θ	Λ	†	Ω	¶	¥	♦	@	Σ	ε	β	μ	Ξ	Φ	ρ	¢	Δ	‡	♥	▫	α	¤	η	Ψ	Γ	Π	§	%	€
C	@	×	€	θ	¶	%	Σ	Λ	Φ	♦	♥	†	Π	¤	ε	§	α	Ψ	ρ	η	#	Ξ	¢	Δ	μ	¥	▫	Γ	‡	β	Ω
D	Λ	¥	×	#	ρ	♦	α	♥	€	θ	¢	Δ	§	Γ	¤	Ω	ε	¶	Ξ	β	Ψ	μ	†	▫	Π	Σ	η	‡	%	Φ	@
E	θ	Λ	@	×	α	Φ	¢	#	Ω	€	Ψ	ρ	‡	▫	Δ	%	†	Σ	ε	Π	¥	¤	¶	Ξ	Γ	♥	μ	η	β	§	♦
F	‡	§	Π	β	×	▫	@	%	μ	η	♦	#	ε	¢	♥	¤	Λ	€	¥	ρ	Φ	Σ	θ	Ψ	α	Ω	¶	†	Δ	Ξ	Γ
G	Ψ	¢	♥	Σ	¤	×	Δ	¶	Λ	¥	ρ	μ	♦	β	η	θ	▫	ε	Γ	Ω	α	‡	Ξ	Π	%	†	§	Φ	€	@	#
H	§	Φ	β	%	#	Γ	×	Ω	η	‡	@	♥	Ξ	α	Σ	μ	¥	θ	Ψ	Δ	♦	¶	Λ	¢	ρ	€	†	ε	¤	▫	Π
J	€	θ	♦	@	¢	§	Ψ	×	%	Ω	¥	α	η	Ξ	ρ	β	¶	♥	†	Γ	Λ	Δ	Σ	ε	▫	#	¤	μ	Π	‡	Φ
K	♥	Σ	¥	Ψ	Ξ	θ	ε	¢	×	#	†	▫	Ω	‡	Γ	@	¤	ρ	μ	Φ	¶	Π	Δ	η	§	α	β	%	♦	€	Λ
L	#	♥	Λ	¥	ε	€	†	Ψ	@	×	¶	Ξ	%	η	▫	♦	Δ	α	¤	§	Σ	Γ	ρ	μ	‡	¢	Π	β	Φ	Ω	θ
M	Φ	♦	%	Ω	♥	Π	#	€	‡	§	×	Σ	▫	ρ	¶	η	Ψ	Λ	¢	¤	@	†	¥	α	Δ	θ	ε	Ξ	μ	Γ	β
N	η	‡	Γ	Π	@	Ξ	♦	β	¤	μ	Φ	×	†	Ψ	#	Δ	θ	Ω	Λ	α	§	♥	€	¥	¢	%	Σ	¶	ρ	ε	▫
P	α	ρ	¶	†	η	♥	μ	ε	Ψ	¢	¤	‡	×	Ω	§	¥	Π	▫	β	θ	Δ	Φ	Γ	%	€	Ξ	♦	@	Λ	#	Σ
Q	Ξ	▫	Δ	¤	%	α	β	μ	†	ε	Π	Ω	Ψ	×	€	¶	Φ	‡	♦	♥	Γ	θ	§	@	#	η	Λ	¥	Σ	¢	ρ
R	μ	η	▫	Γ	♦	ε	Φ	Π	Δ	¤	§	@	¶	¥	×	ρ	€	%	θ	¢	‡	#	Ω	Λ	Ψ	β	♥	Σ	α	†	Ξ
T	Σ	¶	Ψ	¢	▫	Λ	Ξ	α	#	♥	ε	Γ	€	§	Π	×	μ	Δ	η	♦	†	β	¤	‡	Φ	ρ	%	Ω	@	θ	¥
U	Π	β	η	‡	θ	¤	€	§	▫	Γ	Ω	Λ	ρ	Σ	¥	Ξ	×	♦	#	†	%	Ψ	@	♥	¶	Φ	¢	α	ε	Δ	μ
V	%	Ω	§	Φ	¥	η	Λ	♦	Π	β	θ	Ψ	¤	†	¢	Γ	♥	×	Σ	Ξ	€	α	#	¶	ε	@	ρ	Δ	▫	μ	‡
W	Γ	Π	μ	η	€	Δ	Ω	‡	Ξ	▫	%	θ	α	♥	Λ	ε	@	Φ	×	¶	β	¥	♦	#	Σ	§	Ψ	¢	†	ρ	¤
X	†	ε	α	ρ	Π	Ψ	Γ	Δ	Σ	¶	▫	β	Λ	♦	%	♥	‡	μ	§	×	Ξ	Ω	η	Φ	@	¤	€	θ	#	¥	¢
Y	♦	@	Ω	€	Σ	β	♥	θ	§	Φ	#	¶	Γ	Δ	†	‡	¢	¥	α	μ	×	ε	Ψ	ρ	¤	Λ	Ξ	▫	η	Π	%
Z	¤	μ	Ξ	▫	Φ	†	§	Γ	ρ	Δ	‡	♦	Σ	Λ	@	α	Ω	β	€	Ψ	η	×	%	θ	¥	Π	#	♥	¢	¶	ε
0	β	%	‡	§	Λ	μ	θ	Φ	Γ	Π	€	¥	Δ	¶	Ψ	▫	#	@	♥	ε	Ω	¢	×	Σ	†	♦	α	ρ	Ξ	¤	η
2	▫	Γ	¤	μ	Ω	ρ	%	η	ε	Ξ	β	€	¢	#	θ	†	♦	§	@	Σ	Π	Λ	Φ	×	♥	‡	¥	Ψ	¶	α	Δ
3	ε	Ξ	ρ	Δ	β	¢	Π	¤	¶	†	Γ	%	¥	@	Ω	Σ	§	η	Φ	#	▫	€	‡	♦	×	μ	θ	Λ	♥	Ψ	α
4	Ω	€	Φ	♦	Ψ	‡	¥	@	β	%	Λ	¢	μ	ε	α	Π	Σ	#	¶	▫	θ	ρ	♥	†	Ξ	×	Δ	¤	Γ	η	§
5	Δ	¤	ε	Ξ	§	¶	‡	▫	α	ρ	η	Φ	♥	θ	♦	¢	%	Π	Ω	¥	μ	@	β	€	Λ	Γ	×	#	Ψ	Σ	†
6	ρ	Δ	†	ε	‡	Σ	η	Ξ	¢	α	μ	§	#	€	Φ	Ψ	β	Γ	%	Λ	¤	♦	Π	Ω	θ	▫	@	×	¥	♥	¶
7	¶	†	¢	α	Γ	¥	▫	ρ	♥	Σ	Ξ	Π	θ	Φ	β	#	η	¤	‡	@	ε	%	μ	§	♦	Δ	Ω	€	×	Λ	Ψ
8	¢	α	Σ	¶	μ	#	¤	†	¥	Ψ	Δ	η	@	%	‡	Λ	Γ	Ξ	Π	€	ρ	§	▫	β	Ω	ε	Φ	♦	θ	×	♥
9	¥	Ψ	#	♥	Δ	@	ρ	Σ	θ	Λ	α	¤	Φ	Π	μ	€	Ξ	†	▫	%	¢	η	ε	Γ	β	¶	‡	§	Ω	♦	×

Multiplication

	▫	α	β	Γ	Δ	ε	η	θ	Λ	μ	Ξ	Π	ρ	Σ	Φ	Ψ	Ω	@	#	%	¢	¥	€	¤	▫	†	‡	§	¶	♦	♥
▫	▫	α	β	Γ	Δ	ε	η	θ	Λ	μ	Ξ	Π	ρ	Σ	Φ	Ψ	Ω	@	#	%	¢	¥	€	¤	▫	†	‡	§	¶	♦	♥
α	α	Γ	ε	θ	μ	Π	Σ	Ψ	@	%	¥	¤	†	§	♦	Λ	Ξ	ρ	Φ	▫	β	Δ	η	▫	‡	¶	♥	Ω	#	¢	€
β	β	ε	Δ	Π	Φ	μ	Λ	¤	‡	♦	¶	%	€	@	Ω	▫	†	♥	§	¢	¥	#	Ψ	▫	α	η	Γ	ρ	Σ	Ξ	θ
Γ	Γ	θ	Π	Ψ	%	¤	§	Λ	ρ	▫	Δ	▫	¶	Ω	¢	@	¥	†	♦	α	ε	μ	Σ	‡	♥	#	€	Ξ	Φ	β	η
Δ	Δ	μ	Φ	%	Ω	♦	‡	▫	Γ	Ξ	Σ	¢	Ψ	♥	†	α	η	θ	ρ	¥	#	§	▫	β	ε	Λ	Π	€	@	¶	¤
ε	ε	Π	μ	¤	♦	%	@	▫	♥	¢	#	▫	η	ρ	Ξ	‡	¶	€	Ω	β	Δ	Φ	Λ	α	Γ	Σ	θ	†	§	¥	Ψ
η	η	Σ	Λ	§	‡	@	¢	Ω	¥	♥	¤	ρ	μ	β	Γ	Ξ	Π	Δ	α	€	Ψ	▫	♦	†	¶	%	#	ε	▫	θ	Φ
θ	θ	Ψ	¤	Λ	▫	▫	Ω	@	†	α	μ	‡	#	Ξ	β	ρ	Δ	¶	¢	Γ	Π	%	§	♥	€	Φ	η	¥	♦	ε	Σ
Λ	Λ	@	‡	ρ	Γ	♥	¥	†	#	θ	▫	€	♦	Δ	Π	¶	%	Φ	ε	Ψ	▫	α	Ξ	η	Σ	¢	§	μ	β	¤	Ω
μ	μ	%	♦	▫	Ξ	¢	♥	α	θ	¥	§	β	Λ	€	¶	Γ	Σ	Ψ	†	Δ	Φ	Ω	‡	ε	Π	@	¤	η	ρ	#	▫
Ξ	Ξ	¥	¶	Δ	Σ	#	¤	μ	▫	§	€	Φ	Γ	▫	@	%	♥	α	Λ	Ω	†	η	Π	♦	¢	θ	β	‡	Ψ	ρ	ε
Π	Π	¤	%	▫	¢	▫	ρ	‡	€	β	Φ	α	Σ	†	¥	♥	#	η	Ξ	ε	μ	♦	@	Γ	θ	§	Ψ	¶	Ω	Δ	Λ
ρ	ρ	†	€	¶	Ψ	η	μ	#	♦	Λ	Γ	Σ	β	%	▫	Φ	α	¢	¤	@	♥	θ	Δ	§	Ω	ε	Ξ	▫	Π	‡	¥
Σ	Σ	§	@	Ω	♥	ρ	β	Ξ	Δ	€	▫	†	%	ε	θ	¥	¤	μ	Γ	η	Λ	‡	¢	¶	#	▫	Φ	Π	α	Ψ	♦
Φ	Φ	♦	Ω	¢	†	Ξ	Γ	β	Π	¶	@	¥	▫	θ	η	ε	Λ	¤	€	#	§	ρ	α	Δ	μ	‡	%	Ψ	♥	Σ	▫
Ψ	Ψ	Λ	▫	@	α	‡	Ξ	ρ	¶	Γ	%	♥	Φ	¥	ε	†	μ	#	β	θ	¤	▫	Ω	€	η	♦	Σ	Δ	¢	Π	§
Ω	Ω	Ξ	†	¥	η	¶	Π	Δ	%	Σ	♥	#	α	¤	Λ	μ	‡	▫	Ψ	§	ρ	€	ε	Φ	♦	Γ	¢	▫	θ	@	β
@	@	ρ	♥	†	θ	€	Δ	¶	Φ	Ψ	α	η	¢	μ	¤	#	▫	♦	Π	Λ	‡	Γ	¥	Σ	§	β	Ω	%	ε	▫	Ξ
#	#	Φ	§	♦	ρ	Ω	α	¢	ε	†	Λ	Ξ	¤	Γ	€	β	Ψ	Π	♥	¶	Σ	@	▫	¥	Δ	▫	μ	θ	‡	η	%
%	%	▫	¢	α	¥	β	€	Γ	Ψ	Δ	Ω	ε	@	η	#	θ	§	Λ	¶	μ	♦	Ξ	♥	Π	¤	ρ	▫	Σ	†	Φ	‡
¢	¢	β	¥	ε	#	Δ	Ψ	Π	▫	Φ	†	μ	♥	Λ	§	¤	ρ	‡	Σ	♦	Ξ	¶	θ	%	▫	€	α	@	η	Ω	Γ
¥	¥	Δ	#	μ	§	Φ	▫	%	α	Ω	η	♦	θ	‡	ρ	▫	€	Γ	@	Ξ	¶	Σ	¤	¢	β	Ψ	ε	♥	Λ	†	Π
€	€	η	Ψ	Σ	▫	Λ	♦	§	Ξ	‡	Π	@	Δ	¢	α	Ω	ε	¥	▫	♥	θ	¤	Φ	ρ	†	μ	¶	β	%	Γ	#
¤	¤	▫	▫	‡	β	α	†	♥	η	ε	♦	Γ	§	¶	Δ	€	Φ	Σ	¥	Π	%	¢	ρ	θ	Ψ	Ω	Λ	#	Ξ	μ	@
▫	▫	‡	α	♥	ε	Γ	¶	€	Σ	Π	¢	θ	Ω	#	μ	η	♦	§	Δ	¤	▫	β	†	Ψ	Λ	Ξ	@	Φ	¥	%	ρ
†	†	¶	η	#	Λ	Σ	%	Φ	¢	@	θ	§	ε	▫	‡	♦	Γ	β	▫	ρ	€	Ψ	μ	Ω	Ξ	Π	¥	α	¤	♥	Δ
‡	‡	♥	Γ	€	Π	θ	#	η	§	¤	β	Ψ	Ξ	Φ	%	Σ	¢	Ω	μ	▫	α	ε	¶	Λ	@	¥	ρ	♦	Δ	▫	†
§	§	Ω	ρ	Ξ	€	†	ε	¥	μ	η	‡	¶	▫	Π	Ψ	Δ	▫	%	θ	Σ	@	♥	β	#	Φ	α	♦	¤	Γ	Λ	¢
¶	¶	#	Σ	Φ	@	§	▫	♦	β	ρ	Ψ	Ω	Π	α	♥	¢	θ	ε	‡	†	η	Λ	%	Ξ	¥	¤	Δ	Γ	▫	€	μ
♦	♦	¢	Ξ	β	¶	¥	θ	ε	¤	#	ρ	Δ	‡	Ψ	Σ	Π	@	▫	η	Φ	Ω	†	Γ	μ	%	♥	▫	Λ	€	§	α
♥	♥	€	θ	η	¤	Ψ	Φ	Σ	Ω	▫	ε	Λ	¥	♦	▫	§	β	Ξ	%	‡	Γ	Π	#	@	ρ	Δ	†	¢	μ	α	¶


Addition


K→
D→
C→
E→
L→
A→
F→
G→
M→
8→
H→
7→
9→
N→
6→
J→
P→
5→
0→
Q→
S→
R→
4→
Z→
T→
3→
Y→
X→
U→
W→
V→
2→

Constructing Shares

Before constructing shares, you must choose your threshold value k, which is the number of shares needed to reconstruct the secret, and must be between 2 and 31 inclusive. (k = 1 can be achieved by simply duplicating the original secret, and k > 31 is mathematically impossible with this scheme.) Be aware that the work required during recovery is quadratic in k, so values greater than 4 are not recommended. You also cannot generate more than 31 shares total.

Next, generate the "S" share, which is the unshared secret, as well as k - 1 more shares with consecutive indices starting from "A". These initial shares should be generated randomly using dice, affixed with a header, then checksummed. See the Dice Table page and the Checksum Worksheet for more details.

For the case k = 2, you will have only two shares, S and A, and there is a simplified method available to generate the remaining shares. Use each character from your S share to select a table from the following pages. Look up the row indexed by the corresponding character of your A share, then read the corresponding character for the C share from the first column. The character for the D share will be in the column after that, and so on.

The general scheme is more involved:

1. Choose the appropriate table from this page based on your choice of k.
2. Find the column corresponding to the share you wish to create.
3. Translate each initial share by its symbol from that column, using the Translation Wheel.
4. Add all the translated initial shares together using the Addition Wheel.

Tables for higher k can be easily generated by editing the source code of this file.

k = 2	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
S	€	Δ	Ξ	Σ	@	η	Ψ	‡	Ω	†	Π	¤	Γ	Λ	♥	§	▫	θ	♦	Φ	¢	%	β	¶	¥	μ	ε	ρ	α	#
A	¥	Γ	μ	Φ	#	ε	Ω	†	Ψ	‡	ρ	▫	Δ	θ	♦	¶	¤	Λ	♥	Σ	%	¢	α	§	€	Ξ	η	Π	β	@

k = 3	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
S	ρ	Σ	β	ρ	%	%	†	¢	‡	†	α	Π	€	¥	Σ	β	¥	€	α	▫	¤	¤	Φ	▫	Φ	¢	‡	▫	Π
A	▫	α	†	¤	μ	Ξ	θ	μ	Λ	Λ	†	¤	Ω	Ω	β	‡	Ψ	Ψ	‡	#	@	#	α	▫	β	Ξ	θ	@	▫
C	¢	ρ	¤	%	♥	♦	#	♦	#	@	▫	¢	η	ε	Π	▫	η	ε	¤	Ξ	Ξ	μ	Π	▫	ρ	♥	@	μ	%

k = 4	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
S	¢	ρ	Ξ	μ	#	▫	#	@	Φ	†	β	Ψ	Γ	†	Λ	α	ρ	Δ	♥	¶	%	Ξ	†	♥	Ω	♥	ρ	#
A	¥	@	#	Γ	Φ	▫	▫	Δ	¢	♥	♥	¢	Λ	Ψ	ε	β	Ξ	♥	¤	θ	Δ	€	¢	Δ	♦	¶	▫	¤
C	§	@	β	ε	‡	Π	Λ	§	Λ	€	ρ	α	¤	Δ	Λ	Σ	Δ	¶	§	β	ρ	¥	Ψ	♦	Δ	θ	β	♥
D	♦	Π	†	Λ	ε	ρ	†	μ	@	#	Ψ	ε	%	Σ	η	Σ	α	ε	†	€	¶	Ξ	♦	Δ	Ξ	Ξ	Σ	¢

k = 5	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
S	@	ε	Π	▫	§	♥	Γ	Ψ	♥	¥	ρ	θ	▫	¢	¤	η	α	θ	▫	Ψ	§	‡	η	θ	@	β	μ
A	†	Γ	Σ	Ψ	¥	¢	¥	¶	Ψ	Λ	‡	¶	%	Ξ	Γ	¢	¥	θ	Δ	Λ	η	¥	Γ	§	μ	#	†
C	#	†	ρ	β	¥	♥	Ω	θ	ρ	Ω	¶	Σ	Ω	▫	¢	¤	▫	♦	#	¤	%	♥	‡	Φ	Ω	Ξ	¢
D	€	θ	μ	Φ	‡	§	▫	Λ	Δ	Σ	§	@	€	Λ	β	η	Ω	Δ	▫	♥	%	μ	Λ	#	▫	Λ	ρ
E	ρ	Ω	Γ	§	ε	θ	β	ρ	ε	▫	¥	θ	@	Φ	Ξ	Π	¶	†	Φ	♥	†	▫	Ψ	Λ	Ω	#	Λ

k = 6	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
S	Δ	#	α	Ξ	μ	€	Ω	Λ	β	▫	¤	Ξ	Σ	€	ε	€	Φ	Δ	▫	Σ	Ω	¢	Ξ	¶	‡	¥
A	θ	Λ	§	¤	#	θ	▫	†	Φ	▫	Φ	¢	§	Ω	Ω	Ψ	%	¢	♥	¶	€	♦	Ψ	♥	θ	Ω
C	β	Ω	†	η	η	@	¤	Π	Λ	¢	%	¢	€	#	θ	▫	¢	▫	@	η	‡	θ	¥	€	§	Ψ
D	α	†	Δ	@	▫	Ψ	Φ	μ	Ξ	♥	Λ	α	▫	θ	▫	%	€	▫	α	β	♥	♦	▫	@	Ξ	€
E	€	#	†	▫	Ξ	Π	Φ	β	α	€	▫	ε	Ψ	¢	Σ	♦	%	η	%	€	ρ	¶	Φ	Φ	μ	¤
F	†	β	†	ε	ρ	Ψ	Ω	€	ρ	§	μ	Σ	¢	Λ	Ω	ρ	Π	¥	‡	▫	Σ	▫	†	Λ	Φ	▫

Page: **A**

	C	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**	**0**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C	P	F	K	8	S	R	6	5	L	3	D	M	V	U	Q	0	7	E	9	Z	T	W	H	2	Y	N	X	G	J	4
D	U	0	E	M	7	X	H	R	8	N	J	6	L	S	3	G	2	Q	P	T	4	9	5	C	V	F	K	Z	Y	W
E	H	D	U	G	R	9	T	W	0	2	Q	Z	F	5	7	J	X	S	6	V	L	M	4	K	N	C	P	Y	3	8
F	K	L	C	W	Q	7	P	S	4	Y	0	9	T	E	J	8	3	D	X	6	H	R	U	N	Z	V	2	M	G	5
G	Q	M	J	P	N	C	S	2	9	L	Z	U	W	3	V	6	F	Y	E	5	R	K	7	0	4	8	D	H	T	X
H	V	U	T	Q	8	G	N	0	E	9	5	3	K	L	W	S	M	4	Y	2	C	J	F	6	X	P	Z	7	R	D
J	S	G	Q	6	2	K	5	X	M	F	Y	H	8	7	N	Z	C	3	U	4	W	P	R	D	L	0	E	T	V	9
K	6	C	P	0	5	W	Z	4	F	7	E	G	N	H	S	D	R	U	M	Y	V	8	T	X	3	2	9	J	Q	L
L	C	4	F	R	J	3	K	Q	5	Z	8	X	H	D	G	W	Y	0	2	P	U	7	E	V	6	T	N	9	M	S
M	J	9	G	K	V	F	Q	N	X	4	6	E	R	Y	T	P	L	Z	D	S	7	C	3	8	5	W	0	U	H	2
N	X	V	2	4	E	S	9	U	T	J	F	W	Z	K	D	L	Q	C	R	M	6	5	P	3	G	Y	7	8	0	H
P	Z	K	6	D	4	8	Y	L	C	R	U	J	2	T	5	E	W	H	G	3	N	0	V	9	7	X	M	Q	S	F
Q	5	J	S	Z	X	P	4	9	G	C	3	T	0	R	2	Y	K	7	H	L	8	6	W	E	F	D	U	V	N	M
R	8	7	W	N	6	T	0	Z	3	U	X	F	Q	M	P	2	H	9	L	D	J	V	G	5	E	S	4	C	K	Y
S	4	Q	5	Y	9	6	L	M	J	K	7	V	D	W	X	3	P	R	T	F	0	Z	8	U	C	E	H	N	2	G
T	N	H	V	S	0	J	2	D	U	M	4	7	P	F	8	5	G	L	3	X	K	Q	C	Z	9	6	Y	R	W	E
U	T	E	H	J	W	M	V	8	D	X	S	Y	C	4	R	Q	9	5	Z	N	F	G	L	P	2	K	6	3	7	0
V	2	T	N	5	D	Q	X	E	H	G	L	R	6	C	0	4	J	F	7	9	P	S	K	Y	M	Z	3	W	8	U
W	0	R	8	2	Z	V	D	Y	7	H	9	C	S	G	6	X	T	M	F	E	Q	N	J	4	U	5	L	K	P	3
X	M	2	9	F	H	4	G	T	N	S	K	0	3	6	U	C	5	P	8	J	Y	L	Z	R	Q	7	W	D	E	V
Y	7	Z	3	H	C	E	R	K	6	0	V	5	M	2	F	T	D	N	S	W	9	U	X	J	8	G	Q	4	L	P
Z	3	6	Y	U	F	D	7	C	P	8	T	S	9	N	L	H	0	V	Q	R	X	E	2	G	W	M	J	5	4	K
0	E	8	D	9	3	2	U	7	W	V	G	P	4	Q	Y	M	N	J	K	H	5	X	S	F	T	L	C	6	Z	R
2	9	N	X	L	U	5	M	H	V	Q	C	8	Y	P	E	F	S	K	W	G	Z	4	6	7	J	3	R	0	D	T
3	R	Y	7	T	K	U	W	P	Z	D	N	4	G	X	C	V	E	2	5	8	M	H	9	Q	0	J	S	L	F	6
4	F	5	L	7	G	Y	C	J	S	6	W	2	U	0	M	R	Z	8	N	K	E	3	D	T	P	H	V	X	9	Q
5	L	S	4	3	M	Z	F	G	Q	P	R	N	E	8	9	7	6	W	V	C	D	Y	0	H	K	U	T	2	X	J
6	Y	P	Z	E	L	0	3	F	K	W	H	Q	X	V	4	U	8	T	J	7	2	D	N	M	R	9	G	S	5	C
7	W	3	R	V	P	H	8	6	Y	E	2	L	J	9	K	N	U	X	4	0	G	T	M	S	D	Q	5	F	C	Z
8	D	W	0	X	Y	N	E	3	R	T	M	K	5	J	Z	9	V	G	C	U	S	2	Q	L	H	4	F	P	6	7
9	G	X	M	C	T	L	J	V	2	5	P	D	7	Z	H	K	4	6	0	Q	3	F	Y	W	S	R	8	E	U	N

Page: **C**

	C	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**	**0**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
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C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
D	9	7	H	Y	K	A	4	0	Q	6	8	E	T	5	F	L	V	P	U	3	X	N	M	2	S	Z	G	J	W	R
E	W	U	J	H	T	7	F	Z	G	R	4	P	A	S	X	9	Q	3	8	K	V	D	6	Y	0	N	L	5	M	2
F	0	W	K	3	G	9	R	U	J	D	6	X	L	A	2	S	H	V	M	Q	Y	4	N	P	7	8	5	T	Z	E
G	E	2	U	7	M	R	J	X	Z	K	H	L	6	4	5	D	0	9	Y	W	S	Q	3	A	F	V	N	8	P	T
H	4	D	9	L	0	N	3	R	7	V	P	J	Z	M	K	8	A	5	E	S	T	Y	X	G	6	2	U	W	F	Q
J	F	E	W	9	Z	D	K	2	U	Q	3	5	N	6	T	4	7	S	P	0	A	H	V	L	R	Y	8	M	X	G
K	R	F	0	S	U	4	Q	E	W	H	V	T	8	N	G	6	9	A	X	7	L	3	Y	5	D	P	M	Z	2	J
L	P	Y	8	U	6	2	5	V	N	T	J	9	R	F	S	E	Z	W	H	M	0	G	K	7	X	Q	D	4	3	A
M	T	5	X	F	Y	J	Z	L	P	U	0	6	H	Q	N	K	E	R	S	2	D	W	7	4	G	9	3	V	A	8
N	L	A	Y	2	3	T	8	S	V	M	U	D	K	J	4	G	X	E	7	P	F	Z	W	R	5	0	Q	H	9	6
P	M	8	5	J	A	U	X	N	L	2	F	3	7	0	V	W	G	K	4	T	Q	E	R	H	Z	D	9	S	6	Y
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Z	J	D	L	S	A	T	M	X	C	9	K	R	W	E	2	0	Q	6	F	N	5	H	8	V	3	U	G	4	Y	7
0	6	S	K	F	9	V	E	Q	H	W	4	J	7	2	3	R	U	Y	L	8	X	G	A	D	5	C	Z	M	N	T
2	X	Y	A	N	G	J	7	F	4	Z	9	5	0	T	V	3	L	Q	8	C	S	M	H	6	D	K	E	W	U	R
3	Q	N	9	8	Z	6	T	L	M	0	W	X	R	V	D	5	K	U	A	H	F	E	G	Y	S	4	2	7	C	J
4	2	R	Y	J	U	Z	A	V	F	C	N	E	H	9	W	M	D	3	6	X	T	L	Q	0	7	S	K	8	5	G
5	U	8	W	A	0	Y	V	K	E	R	7	Q	J	D	S	X	4	C	9	G	L	2	Z	N	F	M	3	T	H	6
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8	W	E	5	2	S	4	U	0	6	F	X	9	L	C	H	A	R	7	3	V	Z	Y	D	M	G	J	N	Q	T	K
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Page: **Q**

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C	4	M	X	9	K	Z	0	3	H	F	U	S	R	L	2	T	G	8	J	A	V	5	E	N	D	7	6	Y	P	W
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E	R	L	V	2	9	Y	7	T	8	J	3	F	X	H	5	K	S	W	D	N	C	P	M	0	6	4	A	G	Z	U
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J	Y	6	S	C	V	H	P	R	N	3	4	U	G	A	E	X	W	0	T	2	F	M	D	5	K	Z	9	8	L	7
K	W	2	3	D	J	0	H	S	P	X	G	R	U	5	6	F	4	Z	V	M	T	A	9	L	C	8	E	7	N	Y
L	V	8	E	P	5	S	R	9	U	6	K	D	C	W	Z	2	J	3	A	7	M	Y	H	4	N	X	0	F	G	T
M	X	H	C	5	2	G	4	K	W	D	T	J	V	8	P	9	F	U	6	0	E	Z	L	7	A	R	N	S	Y	3
N	J	7	6	H	L	3	S	E	R	2	C	9	D	4	8	M	K	X	5	Y	A	W	0	G	P	F	Z	T	U	V
P	K	Y	2	0	N	X	3	6	S	M	D	E	9	G	7	A	C	F	L	W	5	4	Z	U	H	T	8	V	R	J
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
R	N	V	7	3	U	2	6	8	E	Y	H	Z	0	C	T	W	P	M	G	J	4	K	X	D	S	A	F	5	9	L
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U	L	T	8	S	G	6	E	Z	9	7	P	0	H	K	F	Y	N	2	4	V	W	J	3	C	R	M	X	A	D	5
V	7	E	R	K	T	P	N	U	L	S	W	G	4	M	9	3	Y	H	F	6	X	2	C	A	J	0	D	Z	5	8
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X	0	C	4	T	3	5	A	W	M	G	8	Y	7	E	K	U	Z	L	S	D	R	9	V	6	F	N	J	P	2	H
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Page: **R**

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C	9	5	M	H	F	T	K	4	D	W	G	3	0	Y	Z	X	2	L	E	V	6	P	U	A	7	Q	S	N	8	J
D	C	J	5	T	8	W	M	Z	4	V	H	S	U	G	N	P	7	X	A	9	Y	2	L	0	K	6	Q	E	3	F
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M	K	C	9	X	4	P	V	J	5	2	L	N	Q	U	F	G	T	Y	3	7	0	H	6	S	W	A	E	8	Z	D
N	Z	3	8	9	Q	C	F	A	E	D	V	Y	P	W	0	K	5	7	L	4	T	M	2	X	J	H	G	U	6	S
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S	3	A	E	5	U	J	N	6	Q	F	M	X	W	K	Y	C	4	9	H	8	7	D	V	T	Z	2	P	G	L	0
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X	L	H	G	E	W	A	Y	2	P	0	N	9	J	Z	7	3	Q	8	M	U	4	S	F	5	6	D	C	K	V	T
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Page: **S**

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C	Y	E	J	N	9	F	4	L	A	H	R	8	3	Z	K	W	0	2	7	M	5	U	Q	X	V	6	P	T	G	D
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E	J	A	C	U	K	0	Y	9	D	V	W	7	5	2	G	N	H	R	P	4	Q	F	Z	6	M	3	X	8	T	L
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H	F	V	0	5	J	Z	U	Y	M	R	6	D	T	P	C	3	2	X	L	N	8	Q	7	K	W	G	9	A	E	4
J	4	C	Y	W	L	U	M	D	E	0	2	T	6	Q	9	R	F	Z	8	V	3	N	5	P	H	X	7	G	K	A
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M	H	4	V	Z	E	R	0	C	Y	N	5	9	7	6	A	Q	W	3	K	F	P	2	X	T	U	8	G	L	D	J
N	R	U	W	P	V	6	2	H	F	5	8	J	L	G	M	7	3	T	C	Z	9	X	K	A	Q	D	E	Y	4	0
P	8	X	7	E	Q	D	T	5	6	9	J	W	H	4	Z	C	L	Y	N	G	V	A	M	F	K	0	U	R	2	3
Q	3	Z	5	K	N	T	6	W	2	7	L	H	J	A	U	9	8	D	V	X	C	G	E	4	P	Y	M	0	F	R
R	Z	W	2	8	0	P	Q	F	N	6	G	4	A	9	H	T	X	K	Y	5	D	7	L	C	3	E	J	M	V	U
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
T	K	8	G	Y	6	C	9	X	7	A	M	Z	U	H	3	4	E	V	2	L	F	J	0	W	D	N	R	Q	5	P
U	W	F	N	X	M	3	R	V	0	Q	7	C	9	T	4	P	5	8	E	2	K	6	G	D	Z	L	A	J	Y	H
V	0	M	H	Q	C	2	F	J	4	W	3	L	8	X	E	5	R	6	9	U	7	Z	P	G	N	T	K	D	A	Y
W	2	N	R	7	H	X	Z	0	U	3	T	Y	D	K	V	8	6	G	J	Q	L	P	9	E	5	A	C	4	M	F
X	7	6	P	A	Z	L	8	Q	3	K	C	N	V	Y	2	E	9	J	U	T	M	D	4	0	G	H	F	W	R	5
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9	D	K	L	V	7	4	A	8	G	J	0	3	R	U	P	H	Y	F	5	E	W	M	N	Z	C	2	Q	6	X	T

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D	Y	N	7	Q	6	L	K	9	S	R	V	0	4	J	A	H	F	5	M	X	G	W	8	3	Z	C	E	2	P	U
E	0	3	M	N	8	U	2	G	C	6	7	H	R	K	J	D	9	Y	Q	P	Z	S	X	L	A	F	W	V	5	4
F	W	R	L	4	Y	8	Q	K	Z	5	3	S	P	M	7	C	J	E	U	H	2	G	0	6	V	A	9	N	D	X
G	C	8	4	6	H	P	3	V	J	0	U	F	Y	N	Q	9	2	S	R	E	7	A	D	X	M	K	Z	L	W	5
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J	G	5	8	P	W	0	4	Q	V	E	6	Z	D	U	L	A	M	9	X	C	N	2	S	Y	3	7	K	R	F	H
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N	7	S	D	W	A	F	Y	6	U	Z	H	M	G	5	P	Q	R	V	E	K	8	L	J	C	X	4	3	0	2	9
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Q	V	W	H	E	Z	C	5	R	L	G	0	7	9	P	X	M	4	2	D	J	6	3	A	S	8	U	N	Y	K	F
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S	D	U	N	L	P	R	7	A	9	X	Q	E	8	V	2	W	Z	H	3	Y	J	F	5	4	K	G	C	M	0	6
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
U	N	9	S	F	2	Z	D	P	6	K	W	3	J	H	0	L	X	Q	C	7	5	R	V	G	Y	8	4	E	M	A
V	J	H	5	0	F	E	8	L	Q	C	P	K	S	6	R	2	3	A	Y	G	U	M	9	D	4	N	7	X	Z	W
W	H	L	Q	3	X	4	V	Z	F	8	M	D	6	2	K	E	G	0	N	5	A	C	P	U	J	9	S	7	Y	R
X	R	K	Z	J	N	V	F	D	Y	Q	G	6	M	C	S	8	H	4	A	L	E	5	3	2	W	0	P	9	U	7
Y	X	7	K	V	U	Q	Z	S	D	L	J	P	3	G	9	5	W	8	2	R	C	H	4	M	F	E	0	A	6	N
Z	F	X	R	8	D	5	L	7	K	H	4	9	0	3	N	G	V	C	6	W	M	J	E	P	Q	2	A	U	S	Y
0	P	M	2	7	4	N	A	C	E	U	K	5	L	Z	G	Y	S	X	V	6	F	D	R	Q	9	W	H	J	8	3
2	A	0	P	Y	C	D	6	3	M	S	X	J	W	R	4	K	N	Z	5	9	L	7	F	H	U	Q	V	8	G	E
3	M	C	E	S	J	9	0	8	4	A	D	Q	Z	Y	5	N	6	7	W	2	X	U	K	F	P	R	L	H	V	G
4	3	G	C	9	V	A	E	5	8	2	S	L	K	D	H	U	P	N	F	M	Y	6	7	Z	0	X	R	W	Q	J
5	8	V	J	2	L	M	G	W	H	3	A	X	N	9	F	P	E	6	K	4	S	0	U	7	C	D	Y	Z	R	Q
6	U	A	9	Z	M	K	S	0	P	7	F	4	V	W	E	R	Y	L	G	N	H	X	Q	J	D	5	8	C	3	2
7	K	D	Y	H	9	W	X	U	N	F	5	2	C	8	6	V	L	J	0	Z	4	Q	G	E	R	3	M	P	A	S
8	4	J	G	A	Q	2	C	H	5	M	9	R	7	S	W	6	0	U	Z	D	P	N	K	E	Y	X	F	L	V	
9	S	6	U	R	0	X	N	2	A	Y	L	C	5	Q	M	F	K	W	4	D	V	Z	H	8	7	J	G	3	E	P

Page: **U**

	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
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C	K	V	A	F	Z	Y	2	0	W	T	P	R	G	4	L	N	8	3	M	D	7	6	5	H	J	E	Q	9	S	X
D	T	2	J	4	V	P	8	C	K	F	7	Z	M	E	W	5	N	G	L	Y	Q	3	H	9	6	R	S	0	X	A
E	Q	G	H	X	3	Z	M	4	7	S	V	6	D	A	P	W	L	C	Y	R	2	0	K	T	9	J	8	F	N	5
F	P	6	N	Q	J	E	3	T	Y	7	R	A	0	S	D	M	G	9	C	4	Z	H	L	W	5	X	V	K	2	8
G	H	7	E	0	P	L	Q	3	5	9	W	Y	2	C	N	X	S	V	8	M	K	Z	A	J	R	D	T	6	F	4
H	M	E	Q	W	4	0	R	5	G	L	C	F	J	K	3	V	Z	A	6	9	D	X	2	8	S	T	Y	N	P	7
J	8	D	T	5	C	3	Y	A	2	N	G	0	R	H	V	7	P	E	Z	6	M	4	Q	S	F	9	L	X	W	K
K	D	A	2	P	X	F	J	W	C	Y	4	S	H	7	0	3	6	5	9	T	E	N	G	M	8	Q	R	L	Z	V
L	0	S	Z	D	Q	K	X	M	9	C	T	7	N	Y	H	J	A	8	5	W	F	2	6	3	V	P	4	G	E	R
M	9	Q	R	C	7	W	S	G	H	0	K	P	8	D	5	A	X	2	N	L	T	V	J	6	Z	Y	F	3	4	E
N	3	F	P	M	T	H	4	8	6	G	9	K	X	L	J	R	E	S	A	5	0	Q	Z	V	7	W	C	2	D	Y
P	4	N	3	R	8	Q	5	Y	F	E	S	2	W	Z	T	9	H	L	K	7	X	M	0	C	G	V	A	D	J	6
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R	S	M	9	A	G	V	L	E	Q	X	2	3	Y	J	7	K	W	D	P	Z	8	C	T	F	0	6	N	4	5	H
S	Z	9	L	2	H	A	0	Q	R	V	J	5	F	8	E	D	C	T	4	X	6	K	Y	P	W	N	3	7	G	M
T	Y	J	8	7	A	4	6	K	D	P	E	X	9	Q	C	G	3	H	0	F	R	5	M	L	N	S	Z	W	V	2
U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
V	A	W	C	6	L	8	K	Z	X	J	N	M	7	3	S	F	T	P	Q	2	5	Y	4	E	D	G	H	R	9	0
W	C	X	V	Y	S	T	A	L	0	D	F	Q	5	P	9	6	J	N	H	K	4	8	3	G	2	7	E	M	R	Z
X	V	0	W	8	9	J	C	S	Z	2	6	H	4	N	R	Y	D	F	E	A	3	T	P	7	K	5	G	Q	M	L
Y	F	8	6	E	2	7	N	D	T	4	Q	V	L	R	K	H	5	M	W	P	S	G	9	0	3	Z	X	C	A	J
Z	X	L	0	J	M	2	W	R	S	A	8	G	P	6	Q	T	K	Y	7	V	N	D	F	4	C	3	5	E	H	9
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3	5	P	4	9	Y	M	7	6	N	H	L	D	V	0	8	S	Q	Z	2	G	W	R	X	A	E	C	K	J	T	F
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7	E	5	G	Z	N	S	H	P	4	R	X	8	K	V	F	0	9	W	T	Q	A	L	C	D	M	2	J	Y	6	3
8	6	T	Y	G	K	5	F	2	J	3	H	W	S	M	A	E	4	Q	X	N	9	7	R	Z	P	L	0	V	C	D
9	L	R	S	K	E	C	Z	H	M	W	D	4	6	T	G	2	V	J	3	0	Y	A	8	N	X	F	P	5	7	Q

Page: **V**

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A	M	6	Z	9	U	3	H	G	X	E	W	J	T	F	7	Y	R	C	0	5	S	P	8	4	2	N	Q	L	K	D
C	8	W	F	L	3	0	S	P	Y	4	7	5	6	G	R	K	Q	U	H	T	X	J	D	Z	N	A	M	2	E	9
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E	3	2	R	S	Z	F	P	M	5	W	N	D	L	Q	A	T	C	4	G	9	J	8	0	7	Y	K	U	X	6	H
F	S	C	8	K	P	J	T	9	W	Q	U	2	A	D	3	7	0	G	5	N	6	L	X	M	4	Z	H	E	R	Y
G	X	U	D	E	J	5	6	L	7	M	3	N	C	9	0	R	H	P	T	A	W	2	Y	8	Z	F	S	4	Q	K
H	2	M	5	C	X	Y	E	6	Z	P	8	7	Q	T	D	F	9	S	K	R	4	W	N	J	3	0	L	U	G	A
J	K	0	L	Z	T	6	7	N	Q	D	H	C	3	2	S	M	X	5	W	U	R	A	E	9	G	P	Y	F	8	4
K	U	L	7	H	4	Z	G	Q	J	6	2	8	9	R	N	5	A	E	F	D	P	M	3	W	X	Y	C	S	T	0
L	7	J	K	M	N	A	U	4	0	X	5	F	P	E	T	H	6	2	C	G	3	Z	R	Y	D	9	W	8	S	Q
M	5	Z	H	W	D	9	2	X	A	3	F	K	4	S	G	C	P	8	L	E	N	Y	T	0	R	Q	J	7	U	6
N	Q	T	4	D	C	U	0	F	S	K	6	P	5	Z	W	X	7	A	3	J	H	G	M	E	L	2	R	9	Y	8
P	Y	3	9	4	5	T	W	2	R	8	0	A	U	L	H	Q	S	J	6	C	7	N	K	D	F	G	X	Z	M	E
Q	J	4	0	6	8	D	L	S	N	U	Z	Y	E	H	F	A	G	M	9	K	2	X	5	3	7	R	P	W	C	T
R	P	E	3	T	M	8	9	H	2	C	4	X	K	0	Z	N	F	Q	D	Y	L	S	J	U	W	7	G	6	A	5
S	N	8	T	U	Y	K	4	W	F	J	D	R	M	6	9	G	L	X	E	Q	Z	7	A	5	0	H	2	3	P	C
T	4	S	N	G	W	7	Q	C	8	L	X	3	H	A	Y	D	K	6	R	0	M	U	Z	2	J	5	E	P	9	F
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V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
W	F	Y	C	J	R	Q	8	3	9	N	K	H	X	U	E	L	4	7	M	S	D	0	G	A	T	6	Z	5	2	P
X	A	D	6	3	K	E	Z	7	G	5	9	Q	8	W	L	P	2	Y	4	M	F	R	C	T	H	S	N	0	J	U
Y	C	9	W	0	E	4	F	R	P	T	L	M	D	7	2	J	N	K	Z	8	G	Q	U	6	S	X	A	H	5	3
Z	H	A	M	Y	G	P	5	D	6	R	C	L	N	8	U	W	3	F	J	2	T	9	S	Q	E	4	0	K	7	X
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2	R	5	E	8	A	C	3	Z	H	Y	T	G	J	4	6	S	W	N	U	P	0	F	Q	K	9	L	7	D	X	M
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6	Z	X	A	P	7	R	M	U	D	2	Y	0	S	C	K	9	E	W	Q	H	8	3	F	N	5	T	4	J	L	G
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8	T	F	S	7	9	L	N	Y	C	0	G	E	Z	X	P	U	J	D	2	4	A	K	6	H	Q	M	5	R	3	W
9	W	P	Y	Q	2	N	C	E	3	S	J	Z	G	K	5	0	T	L	A	F	U	4	7	X	8	D	6	M	H	R

Page: **W**

	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9
A	U	S	5	E	3	L	7	H	D	Y	K	T	R	M	F	4	C	G	6	2	N	Q	P	X	0	8	V	9	J	Z
C	Q	Y	L	R	U	P	E	7	0	G	X	D	J	6	5	8	M	V	Z	4	9	N	T	3	K	F	H	S	A	2
D	A	Z	S	L	J	Y	5	F	H	2	E	V	P	K	9	Q	0	4	X	U	M	C	G	R	7	N	8	6	T	3
E	K	Q	4	V	0	8	G	Y	L	N	T	5	H	J	2	6	R	9	A	M	3	X	F	D	P	Z	S	U	7	C
F	H	J	3	2	V	U	Z	6	9	A	Y	N	4	L	X	0	5	C	P	D	E	7	Q	G	S	K	M	R	8	T
G	P	K	M	9	L	6	N	Q	4	X	F	2	S	H	C	J	V	3	7	R	D	T	Z	5	8	A	U	0	Y	E
H	D	3	Z	Y	T	2	S	9	F	U	L	8	G	E	6	C	7	Q	R	A	K	0	4	P	5	M	N	X	V	J
J	3	9	F	7	X	5	H	V	T	S	0	P	E	C	8	2	A	Y	M	Z	Q	U	L	K	D	4	G	N	R	6
K	M	4	G	T	C	V	P	L	E	8	J	7	D	3	Y	9	X	F	U	N	Z	6	H	A	R	S	5	2	0	Q
L	E	C	Q	8	7	N	4	2	Y	M	V	S	F	T	U	X	P	6	D	K	J	R	9	H	G	3	Z	A	5	0
M	N	G	P	J	Q	T	R	E	K	V	3	0	A	Z	L	F	6	H	2	8	S	9	D	U	X	5	7	Y	C	4
N	8	P	R	3	4	J	X	K	M	T	Z	C	U	S	E	H	9	D	Y	V	5	F	A	2	6	7	0	L	Q	G
P	R	M	N	F	E	9	8	4	G	6	H	Y	5	D	Q	3	T	Z	0	X	A	J	S	7	V	U	2	C	L	K
Q	4	L	E	X	2	R	K	0	C	P	6	A	3	9	7	V	N	T	S	G	F	8	J	Z	M	H	D	5	U	Y
R	X	N	8	H	K	F	V	G	P	9	D	L	7	A	4	Z	J	S	C	6	U	3	5	0	T	2	Y	Q	E	M
S	5	D	A	Q	F	C	U	3	Z	0	4	6	N	G	J	E	Y	K	V	7	P	L	M	8	2	R	X	T	9	H
T	J	6	9	5	R	S	F	8	V	Z	7	G	L	0	N	U	D	2	K	3	C	A	Y	E	H	Q	4	M	P	X
U	2	5	7	K	Z	E	0	D	A	L	M	J	X	N	H	G	Q	P	9	Y	8	4	R	6	C	V	T	F	3	S
V	T	X	6	S	P	Z	9	N	8	3	5	4	Y	7	M	A	H	U	E	J	0	D	2	L	F	C	Q	K	G	R
W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
X	6	8	V	D	M	H	T	P	R	F	A	E	0	U	G	S	3	5	Q	9	2	Z	7	C	J	Y	L	4	K	N
Y	L	0	C	N	5	M	Q	U	2	K	8	Z	9	V	A	R	G	X	H	E	T	P	6	F	4	J	3	D	S	7
Z	S	H	D	C	9	0	A	J	3	7	Q	X	M	4	T	L	2	E	8	5	G	Y	K	N	U	P	R	V	6	F
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2	Y	7	0	M	S	K	C	A	U	E	N	3	6	8	D	P	4	R	F	L	V	G	X	9	Q	T	J	H	Z	5
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6	9	V	T	A	N	D	J	R	X	H	U	K	C	2	P	5	Z	7	4	F	Y	S	0	Q	3	L	E	G	M	8
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9	F	T	J	U	8	A	3	X	6	D	2	M	Q	Y	R	7	S	0	G	H	L	5	C	4	Z	E	K	P	N	V

Page: **x**

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A	Q	3	7	J	V	W	N	S	G	T	D	5	2	P	8	R	0	6	U	F	L	Y	E	C	M	9	4	K	Z	H
C	U	9	4	G	P	S	5	E	2	8	A	J	M	Q	6	3	V	7	Y	K	F	H	N	0	Z	T	W	R	D	L
D	P	R	6	5	0	4	E	W	J	9	Z	N	G	V	T	K	C	8	Q	L	H	U	S	A	2	3	7	F	M	Y
E	2	P	L	8	J	K	9	R	6	U	S	T	7	G	Y	V	5	H	M	C	A	Z	3	N	4	Q	F	0	W	D
F	T	N	M	P	3	D	0	A	Q	J	L	V	U	9	G	E	R	2	8	W	4	6	C	K	Y	5	Z	S	H	7
G	A	H	3	W	Z	T	7	8	S	F	J	4	E	D	K	Y	M	R	C	Q	P	0	6	2	N	L	9	U	5	V
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J	D	Y	R	4	M	9	6	T	W	L	5	7	S	Z	F	U	2	K	A	P	V	C	8	G	E	H	3	Q	N	0
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L	9	E	2	V	R	Z	C	D	P	5	H	0	Q	3	J	S	K	G	T	4	7	8	A	F	U	N	M	W	Y	6
M	0	F	T	E	A	6	W	7	N	R	2	S	5	C	3	L	D	9	V	Y	U	P	4	Z	J	K	8	H	G	Q
N	M	Q	F	6	G	R	T	3	7	Y	E	8	4	2	H	P	J	L	Z	0	C	D	9	5	W	U	K	V	S	A
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S	G	V	H	T	5	F	3	K	8	Q	W	9	6	J	U	0	N	Y	2	A	D	M	R	E	7	P	L	C	4	Z
T	W	M	0	L	7	P	Y	Q	F	D	9	H	K	4	A	2	6	C	S	J	5	E	U	8	R	Z	V	G	3	N
U	K	4	5	A	L	G	Z	2	C	S	Q	D	0	F	E	7	H	N	R	8	T	3	M	Y	V	W	J	6	P	9
V	H	8	S	M	U	N	G	5	Z	7	0	2	D	Y	4	T	Q	W	L	3	R	F	J	P	A	6	E	9	C	K
W	J	0	Y	9	N	L	R	F	T	P	4	3	8	5	Q	C	E	U	G	D	Z	2	K	S	6	V	H	A	7	M
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Y	R	W	J	C	F	2	D	M	0	E	U	A	V	K	N	4	L	5	3	6	8	9	Z	H	P	S	G	7	Q	T
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Page: **Y**

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M	G	R	A	9	S	5	8	P	C	7	J	F	U	2	X	W	K	4	E	6	L	Q	N	3	H	Z	T	D	V	0
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T	F	3	E	R	N	0	D	L	Z	S	A	W	7	8	2	M	P	G	9	V	H	C	6	5	X	K	Q	J	4	U
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Page: **z**

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C	J	3	S	E	M	V	X	W	U	5	Y	F	T	D	A	6	N	H	8	R	0	4	L	Q	G	2	K	7	9	P
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E	Y	4	6	K	G	2	H	5	V	0	F	S	W	9	R	8	T	7	C	D	M	Q	A	U	L	P	3	J	X	N
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G	N	R	5	L	C	H	V	S	X	6	T	W	F	Q	3	0	Y	2	M	4	8	D	K	9	E	7	A	P	U	J
H	L	Y	D	7	V	8	0	4	6	Q	A	R	3	W	N	9	K	M	X	T	U	F	P	S	2	C	J	G	5	E
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K	F	Q	8	3	L	P	7	0	2	M	S	6	5	X	D	C	W	J	E	9	G	U	R	V	A	N	4	Y	H	T
L	T	D	0	A	E	7	2	6	H	8	W	5	S	U	4	M	F	P	G	Q	C	9	3	X	K	J	R	N	V	Y
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N	4	5	V	T	J	L	E	X	G	H	Q	U	9	8	S	2	D	K	P	6	7	0	F	M	Y	A	W	3	C	R
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S	X	C	J	6	W	4	R	P	3	N	H	7	2	L	M	Y	V	D	F	G	T	E	0	K	5	Q	8	9	A	U
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V	E	N	4	2	X	0	6	R	5	D	K	3	A	F	J	Q	L	8	U	Y	9	T	7	W	H	M	P	C	S	G
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Page: **0**

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E	P	9	7	Z	A	Q	C	L	W	F	8	V	N	M	4	X	6	D	R	5	Y	J	2	S	H	G	K	3	U	T
F	Q	H	6	Y	7	M	J	P	5	8	G	T	3	K	E	N	D	S	L	Z	V	2	R	4	X	U	A	W	9	C
G	K	N	S	T	D	A	R	M	Y	U	9	J	5	7	8	W	4	E	Q	V	C	L	P	F	3	H	6	Z	X	2
H	6	5	F	2	E	D	Q	7	C	X	N	L	V	S	9	Y	8	G	A	J	R	M	K	U	Z	3	4	T	W	P
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X	D	Z	8	R	F	S	M	6	J	N	3	P	T	4	H	V	G	U	7	2	L	K	A	9	Y	W	E	C	5	Q
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9	7	W	E	J	4	6	P	A	T	H	X	R	Y	D	U	Z	F	8	K	C	2	Q	M	G	5	N	S	V	3	L

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E	C	5	S	A	4	M	6	N	F	Q	J	0	8	L	D	3	U	V	7	W	H	Y	9	Z	T	R	G	P	K	X
F	E	X	5	M	K	Q	S	D	N	W	A	G	9	J	P	Y	T	3	Z	C	L	U	V	8	6	H	R	7	0	4
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2	G	S	C	Z	J	W	V	7	R	3	U	0	L	X	T	6	Q	F	Y	D	K	E	M	4	8	H	P	N	5	A
3	W	8	Q	K	C	X	E	G	D	U	H	A	N	P	2	L	F	4	7	Z	0	M	Y	T	6	5	J	R	S	V
4	Y	H	P	R	X	7	0	M	L	T	2	Z	8	G	F	S	J	C	E	N	D	A	V	Q	5	3	W	6	U	K
5	J	N	T	V	4	C	7	P	0	S	8	M	Z	Q	H	D	2	3	X	A	E	G	W	U	R	6	F	K	L	Y
6	F	Z	U	Y	3	4	X	Q	E	L	N	G	A	T	8	0	H	5	C	M	7	P	J	S	K	R	2	V	D	W
7	R	J	A	3	0	D	S	N	T	G	W	H	F	Z	Y	Q	V	E	L	2	U	8	6	M	C	X	K	4	P	5
8	Q	D	3	M	2	F	W	C	V	6	L	7	0	4	S	K	U	H	J	E	Y	X	P	5	Z	N	T	A	R	G
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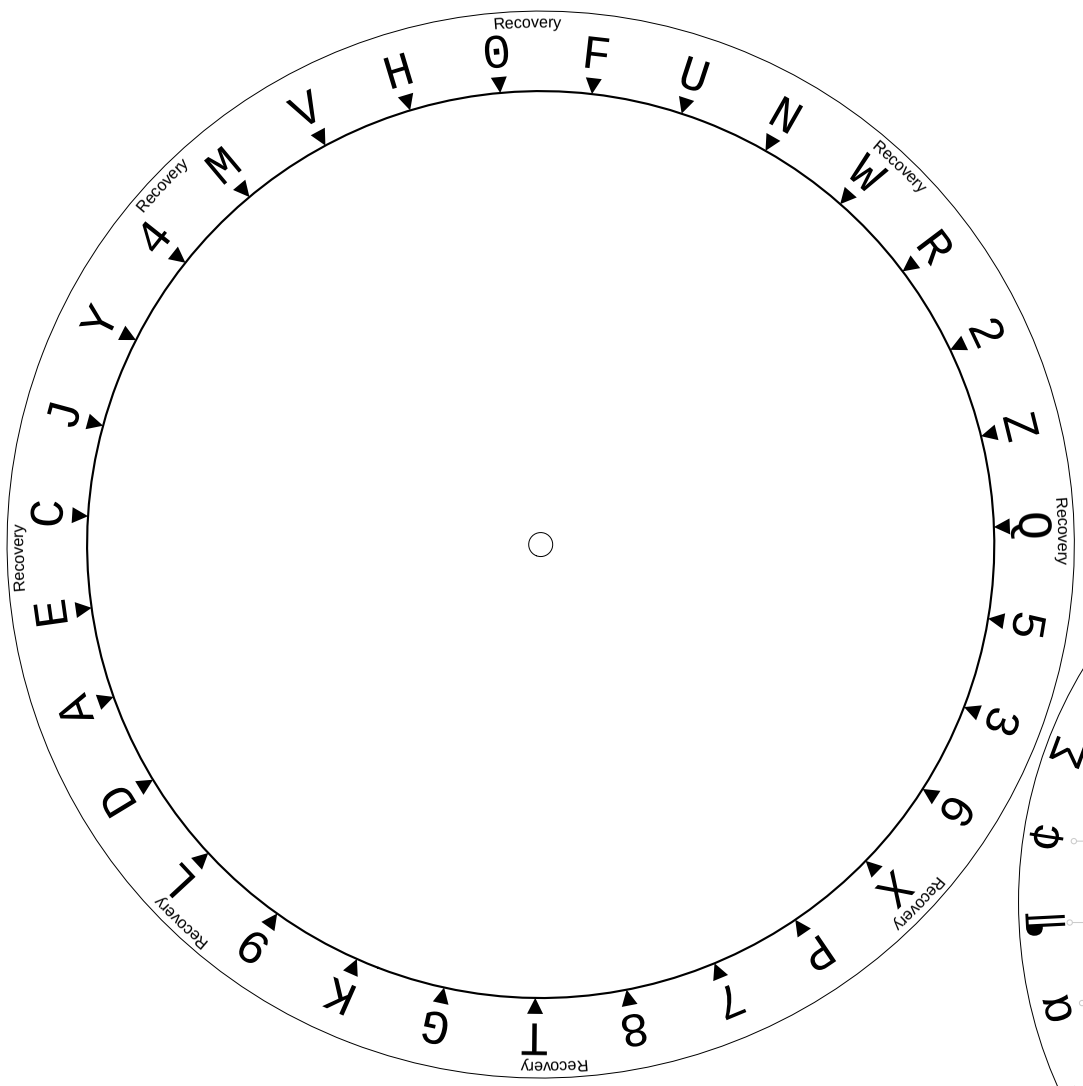
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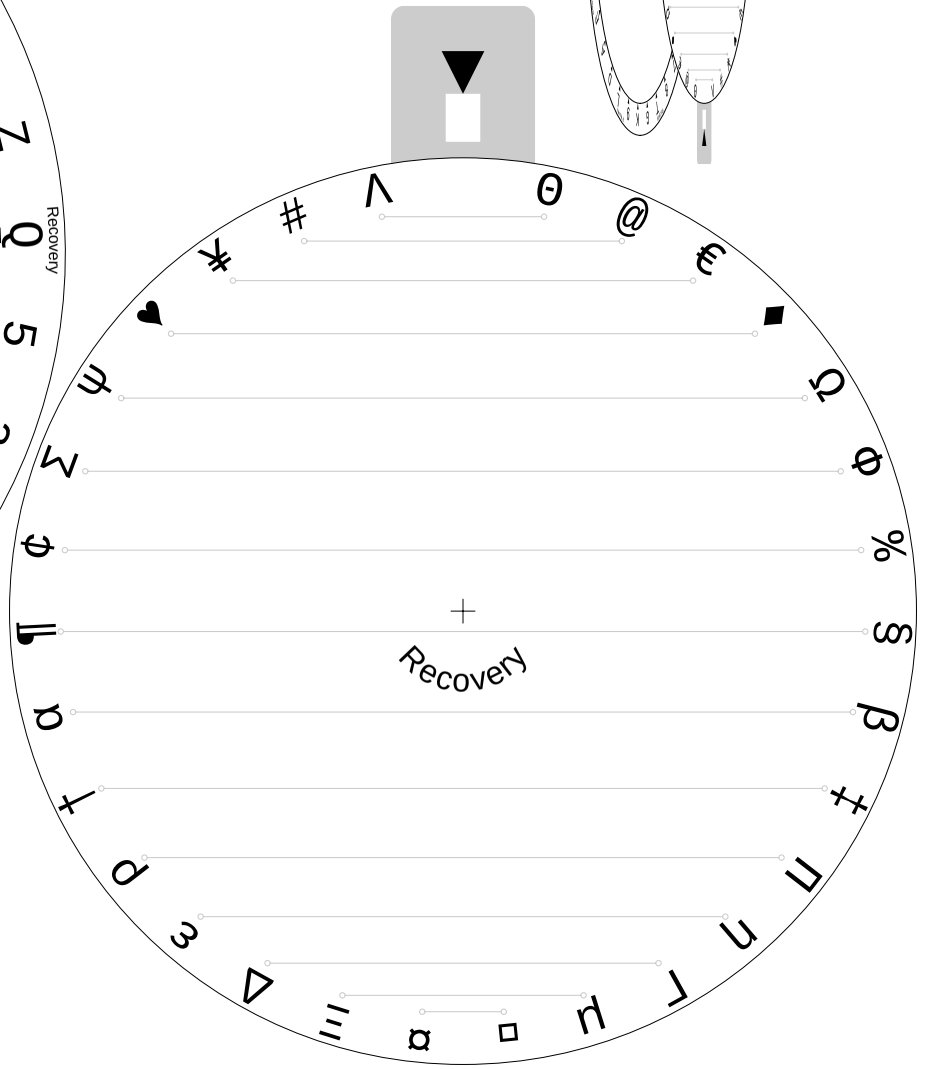
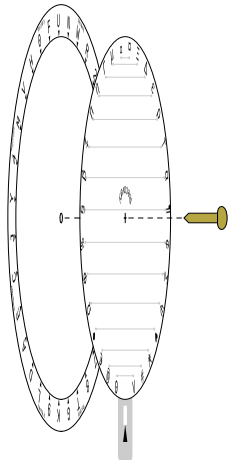

Recovery
Θ @ € ■ ς φ % § β ± Π Ո J Ц ¤ ▫ ≒ Δ ε ρ † α ¶ ϕ ξ ζ ψ ♥ * # V



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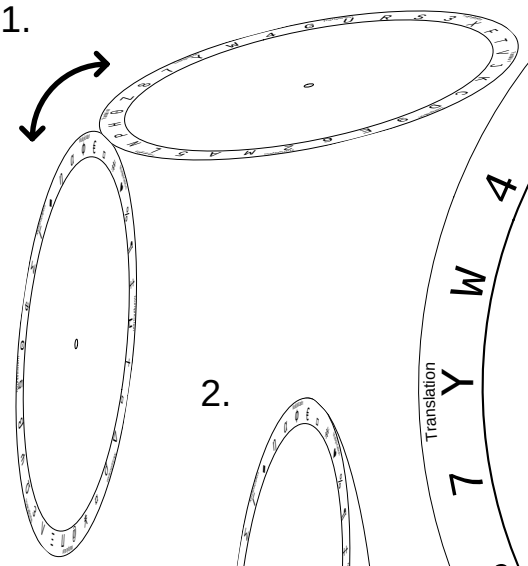

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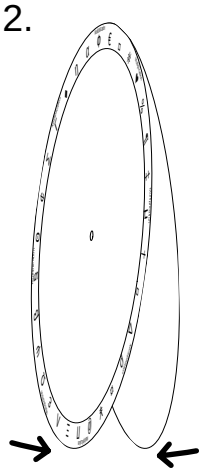

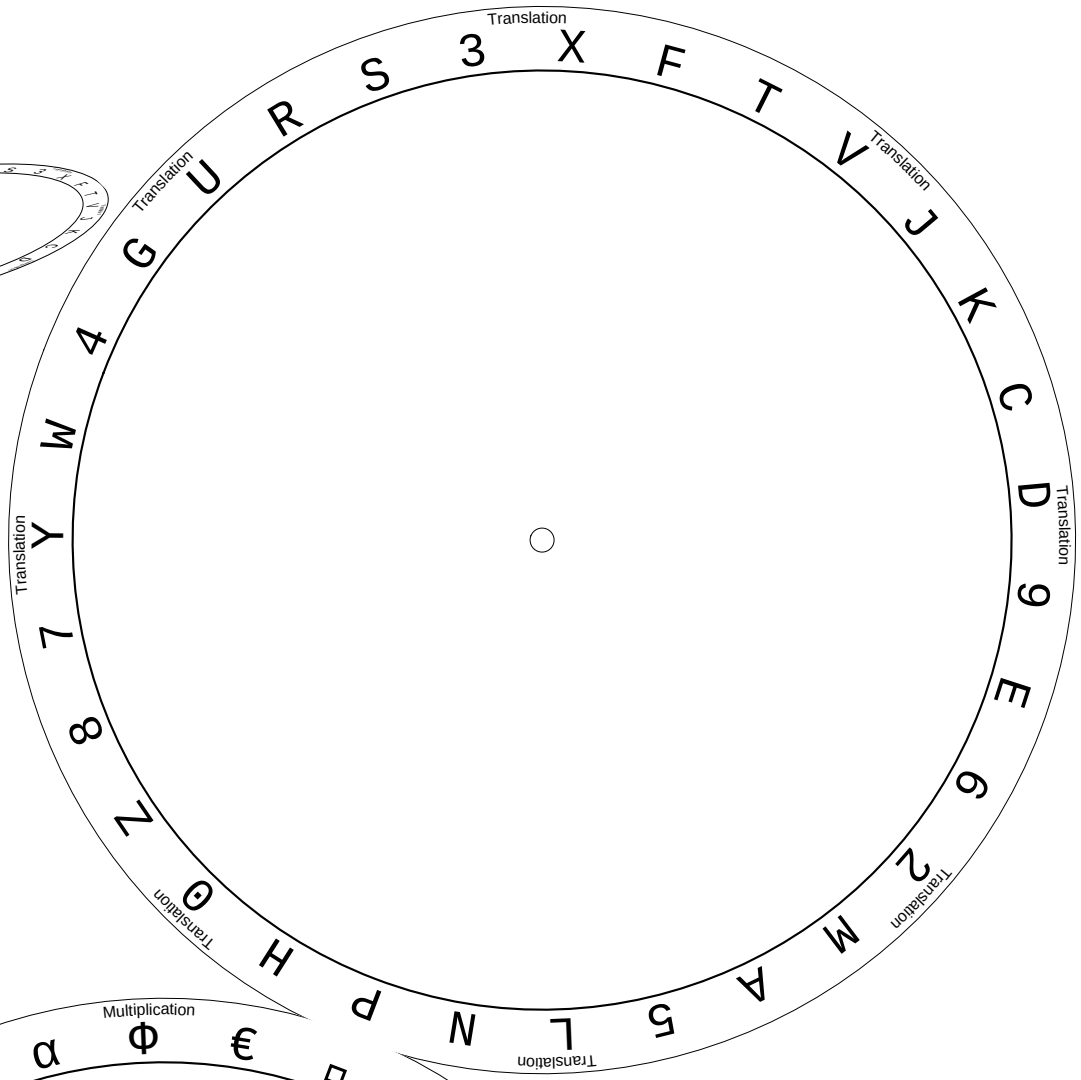
Translation
Translation
Translation

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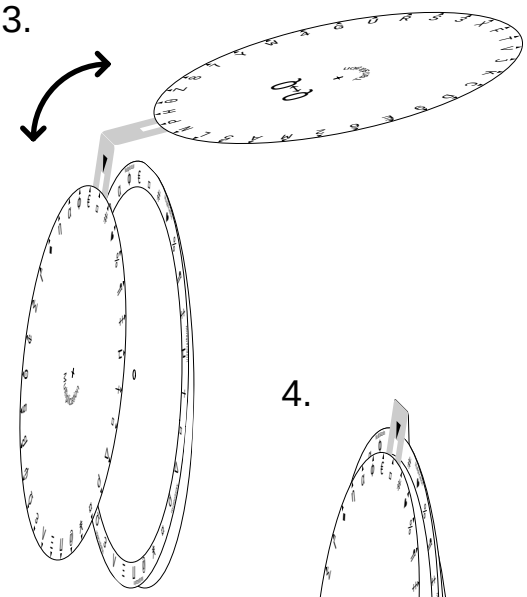

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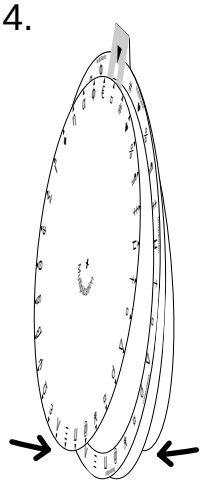

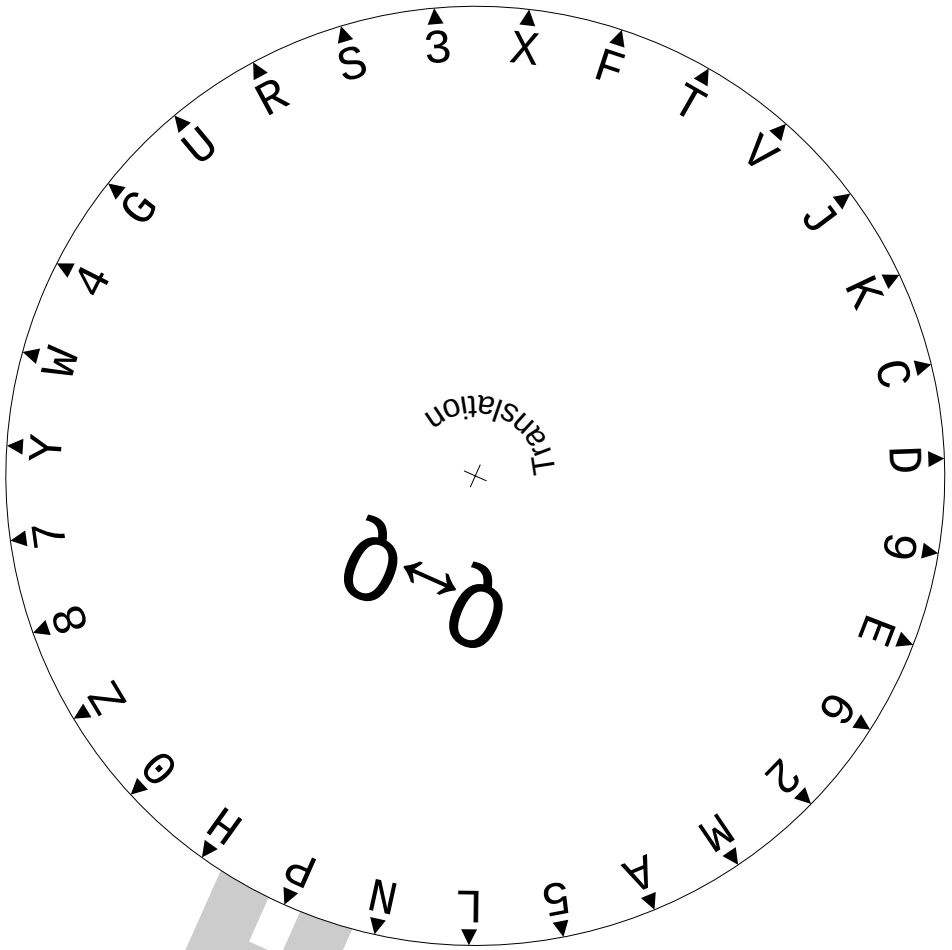

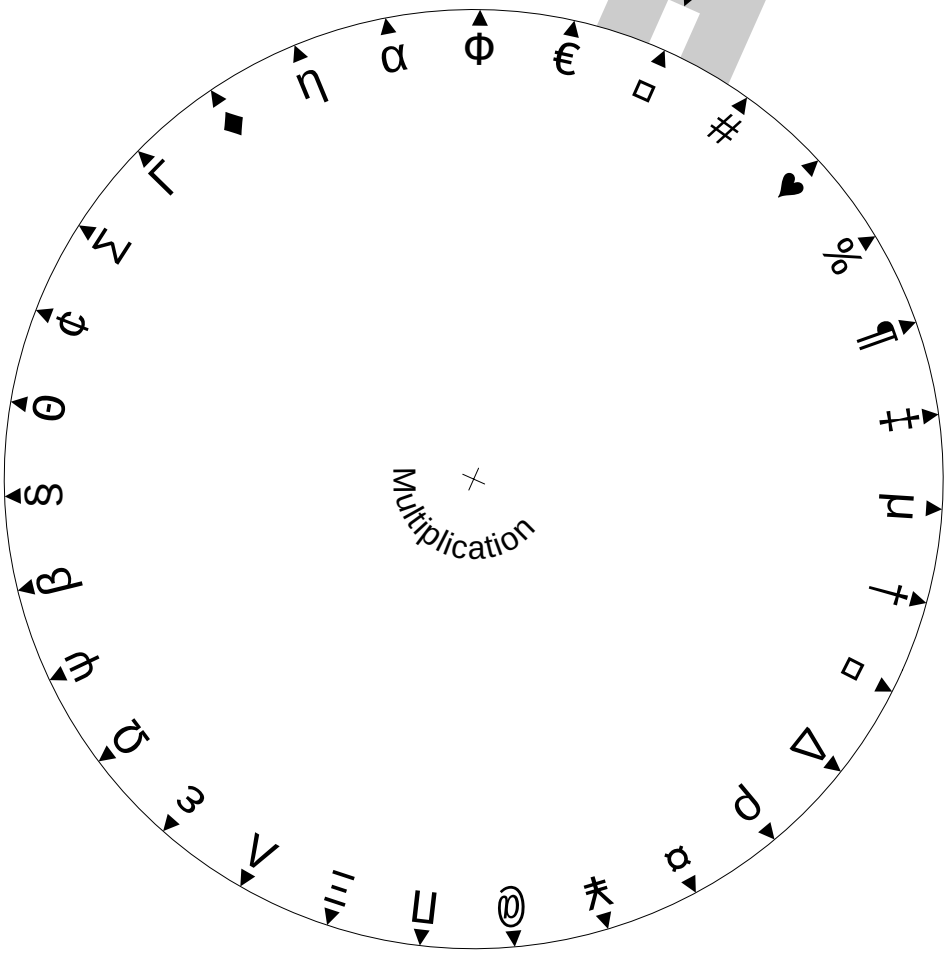

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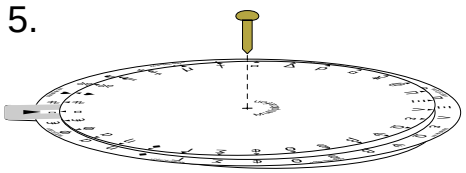

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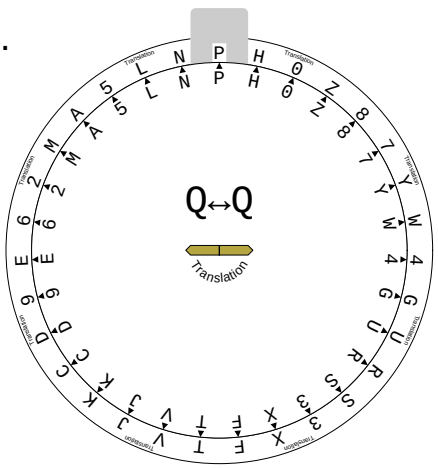

MS32 Checksum Table

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AC	K8XTK99EMYGRK	CC	7G6JS88980G6D	DC	97863LLC6QGJA	EC	VTV9FHHN39GD2	FC	LJD5WDDJSPGUP	GC	D3MRHAAYXTGTX	HC	XEHS6PPG2JGCF	JC	WKTFURR5KEGPJ
AD	H9T8KYYCLXUMW	CD	L2H7SXXYRDUZ4	DD	YU2K377E7ZU29	ED	DFPFFKKJ48U4J	FD	7SQCWVVN5RUYE	GD	VNK0HUU9ZFUN7	HD	8M6U6QQFWSUQ3	JD	05X9UZZ4JMUE2
AE	0UHRKUUQYLSNX	CE	8NT6S77UC5S2A	DE	U9KJ3XXP9MSZD	EE	4SADFWW2W7SA6	FE	XFUUW55T06SV3	GE	522THYYAESSMK	HE	LZXC6CC34FSGE	JE	HD6PU66DFZS3Z
AF	GJAWKM8C38FU	CF	QAPHSEEMY68S8	DF	MTUL3PPXE48CH	EF	J7HQFFFDJS88Q	FF	P8K3WNNVN58KT	GF	NYQXHRR6978PV	HF	CVV46LLKF88JR	JF	SRSVUAA24V8TC
AG	3FVXKZZ782LEV	CG	EXSLSQQZMPLQH	DG	ZSDH3CCLXWLG8	EG	T9XGFSS5DTLHS	FG	CU8EW224V0LXM	GG	2L3WH66R69L3U	HG	PHAA6XX0KULZN	JG	FCPYUYYN2HLMG
AH	UN0GK00N6SD9S	CH	5UN3SDD0XMDUT	DH	02WE344JM5D5M	EH	XL9XFAAES3DTV	FH	4XYHW88C34D68	GH	89JQHHHW8LDDQ	HH	VD7N6TTZTXD70	JH	YZZ2UFF7HDD85
AJ	6LGFKFF4ZUW8J	CJ	JS5SSTTF7HW7F	DJ	FXFC3NN5RCWKE	EJ	QNZ8FMMLGAWFW	FJ	N2RKWPP7FEWC9	GJ	PF4PH33GLNW0Z	HJ	2PEJ6DDYN2WUD	JJ	ZW9TU00C0PW9K
AK	9G7QKKK29T44Q	CK	D8ZES55KEQ4VM	DK	K3L33VVTY04YT	EK	LY5WFYYQ024MU	FK	VA4LW77PWW42H	GK	77RGHWWHCY4AS	HK	4K0M6JJM5A4WL	JK	AENZUSS8GK4HY
AL	T526KCCY5HJGA	CL	RMKRS66CGUJ3X	DL	CDTT3ZZ94NJEK	EL	3CQ5F22W7KJXP	FL	ZPP9WSS0LJJH2	GL	SZHJHQQEFCJQD	HL	M2MP6UU49PJNZ	JL	N98CU77FE2J2E
AM	5RUNK88MNQF60	CM	UVQ2S9980TFR5	DM	86AZ3AA6JYFTY	EM	W0KAF443EPF5N	FM	AKHVW00SC9F9C	GM	04PMHLLXW0FJL	HM	YADG6RR2ZKFPS	JM	VJ33UPPK7AFCT
AN	RYEPKSSVA8KHZ	CN	TT9CSJJSPVKWE	DN	SACS322DURKXF	EN	EGN0FZZXHXKE7	FN	23J7WCC8KZKG4	GN	CJYFHGG3QGKLJ	HN	N6G6655AV3KVA	JN	M45RUKKPS6K4X
AP	L4CUKVVSKKCY3	CP	H6Y9SWWV2ACA2	DP	VVED3KK3HJC46	EP	9EJJF776UHC2D	FP	KQNRWYYMANCMX	GP	YR95H55DTECVP	HP	0TF86GGP8QCLW	JP	8Y47U22AMTCX4
AQ	XWF5K44FFDQ5P	CQ	WP4DSHH44XQD6	DQ	4HG9300GGFQ92	EQ	UZR6F88RRVQ6A	FQ	0MZTWAAZZGQTK	GQ	AC5UHDD55ZQU3	HQ	KSC0633CCMQ07	JQ	7LYKUNNYYSQK9
AR	Y2NVKHHTPFPDC	CR	V904S44HAZP5R	DR	HNJA3DD2QDPUN	ER	7XEZF99PTGPRY	FR	DLCNWLLQ2VPJ0	GR	LUWYH00KUXP9G	HR	55ZH6NN6SLPK8	JR	UM7WU33XV5P0U
AS	PQREKJJW4RHWM	CS	F0LQSSSJFGHHQ	DS	JEZG3GG058HLS	ES	MVFHFQQYLZHQ8	FS	G4GXW6697XH3V	GS	6K73H22NGVHXT	HS	37JZ6KKLY4H4Y	JS	E3WMU55RC7HVL
AT	NDK7KQQU0W7Q4	CT	MZ28SZZQN97EW	DT	Q5H0366AW2737	ET	FPUSFJJK907WF	FT	6CAPWGGHYT7LZ	GT	GMTKHCCPJP7G9	HT	RN896YYD7C7M2	JT	TUMUUXX3ZN7Z3
AU	FSSZK66XUNN3Y	CU	PLVMSCC6QCNGL	DU	6F3N3QQ8AHNQ0	EU	NU6VFGGVKJNLC	FU	Q9MAWJJDHKNWN	GU	JXD2HZZMPUNE5	HU	EWPE677HD9N2M	JU	3PAQUUUT3WNNQ
AV	W760KAAPQAYT7	CV	X3XKSLLAUKYJ9	DV	A8M7388QPEY64	EV	5JSPF00T2UY9Z	FV	8T3SW442TCY5F	GV	4G88H99UAJYRW	HV	7QT56EES3TYSP	JV	K0HDUMMVDQYF6
AW	4P3LKXX6HZAZH	CW	AWDXSYYXTFAMV	DW	XCSW3UUMKXANU	EW	0DM3F55SARAVT	FW	U56QWWW3U8AAQ	GW	WHVHH7782DA28	HW	9LQY6ZZTX5AEG	JW	DSUAUQQH6LAQN
AX	ZX5DK33DE9Z06	CX	2FG5SNN39WZKP	DX	3L4U3TTVCPZ73	EX	C27RFRR8NYZPX	FX	TNLJWEEXJQZSD	GX	ESF9HFFSY2Z82	HX	JC9K644UGNZ59	JX	6HE0UHHQ5CZD7
AY	EELAK22KW6MXN	CY	3KRYSGG2J3MLG	DY	2Q7V3SSH07MHC	EY	R44NFCCUYMMG0	FY	SV5ZWZZA9LMEY	GY	Z0Z4HJJTN4MWR	HY	F8WX6WW8LVMAV	JY	PGJLUVVMR8MYH
AZ	A3ZYKWWJ7JEAG	CZ	477ASVVWZEEYN	DZ	WGR4355NLKEVR	EZ	8AG2FUUC5NEN5	FZ	5YFMWXXE4HEZL	GZ	X8LVHKK0RAE4C	HZ	D0NL622R0YEXH	JZ	9Q0XUGGLN0ELV
A0	V6QHKLLRGE9J8	C0	Y4UWSAAL5J9TU	D0	LRPX399ZFA9RV	E0	KK2EFDDFZC9UM	F0	90TGWHHGRU9DS	G0	HVALH8874K96H	H0	UY3V6MMJE09FC	J0	5TD4UEEW9Y9SR
A2	2K8KKEE9S4XS9	C2	ZEM0SMMEV7XF7	D2	E0X83RRY33XPW	E2	S6DCFTT065X7E	F2	RRVFW33WMSX0J	G2	3Q67HPPCD6XC4	H2	6GKD6AA5PRXT6	J2	J825ULLGAGXJP
A3	CMJ3KTTH2C07T	C3	S5WGSFFTKN08S	D3	TZNQ333KTU00Q	E3	ZHCLFEEAQE0SH	F3	3WEWWRRUPA0PU	G3	RD0EHNN2HH0KM	H3	G9R2600XMW095	J3	Q2LNUDD6890U0
A4	8VYCK55GD05VE	C4	0RCPSKK53Y54Z	D4	549F3WWFVT5AJ	E4	AQWKFXXZ8W5Z9	F4	WE08WUURX25NW	G4	U6ESHVV4SQ5YF	H4	HJ4R6SSEUE5HX	J4	LAF6UJJ9QJ5WA
A5	7H4SKDD3J5VUF	C5	KCFFS00DWLV9J	D5	DW5P3HHSNSVDZ	E5	YML7FLLMC4VJ4	F5	HZ70W996E3VR7	G5	9PGCH44V0MV5E	H5	WFYT6FFQRZV8K	J5	XXCJUTTULFV7D
A6	DCDMK77ZVM32L	C6	9H3ZSUU7SS3NY	D6	7PV23YYRDL3M5	E6	H584FVVGX63YR	F6	YDXYWKKF8734G	G6	KWSNHXXL353Z0	H6	AXUQ666NAD33Q	J6	4FQEUCC0PX3GM
A7	J0MJKPPATV2CD	C7	6Q8TSRRPH82PK	D7	PK6R3MMU2G2FX	E7	GR3UFNNHPD2K3	F7	M6SDWFFKQF286	G7	FEX6HEEQKR2SA	H7	Z32F699V662RJ	J7	27KSU88SX326F
A8	MA99KGG5X76L2	C8	NJEUS22G646WP	D8	GYY53JJ4866WP	E8	P30TF667VL63K	F8	JGW6WQQLDM6QA	G8	QTCDHSSFM36H6	H8	TR576VV9HG6Y4	J8	RVG8UWWETR6AW
A9	QZW4KNN03PRKR	C9	GDJVS33ND2R0C	D9	NM0Y3FFWS9R8G	E9	6WYMFPP9MQRCL	F9	FH92WMMY6YRF5	G9	M5NAHTTJVWR7N	H9	SULW6HH7QHRDU	J9	CNRHU44ZUUR58

KA	JKXXRHHCY5TDV	LA	ADYDD226XUTX6	MA	8PWRJCCSVATGX	NA	6E6L944YCLT5H	PA	YX7FEXXQU0TZJ	QA	K9G7QKKK29T44	RA	FQMWZ009EMT9U	SA	9UF08VVHTPTY7
KC	56P8R337UCG0W	LC	MPRVDVVU7SGYC	MC	PDFZJ77K53G2Y	NC	U4A79NNZQNGK4	PC	Z2EGEQQXYRGQS	QC	SF0LQSSSJFGHH	RC	0VU0ZFFRPHG87	SC	RSWW8223NDGXU
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KF	206ZR00QLD89Y	LF	95CFDJJZA98WJ	MF	LCJ8JQQGHY8QW	NF	ZQXM9DDURX8UL	PF	ULZDE77C8K826	QF	WU56QWWW3U8AA	RF	3E82ZHHAZZ8D5	SF	A94T8550SC8VK
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KH	7WGYRMM5AVDFG	LH	3420DXXKLYD7Z	MH	TEQPJ55U49DVZ	NH	KP5A9EEGP8DSN	PH	G7STE22V9HDXK	QH	6AXUQ666NAD33	RH	9C4VZRRFQRDPC	SH	FY8D8QQMJEDQ6
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KP	AGLSRCCH32CGF	LP	JNAMD994NZCRL	MP	GLH4JHHLERCDR	NP	48RF966TDPC3J	PP	TC8LEFF0F3C8H	QP	EM3GQEEELMCSS	RP	X7ZCZQQ2V9CQE	SP	2ZSE8RRC7LCPM
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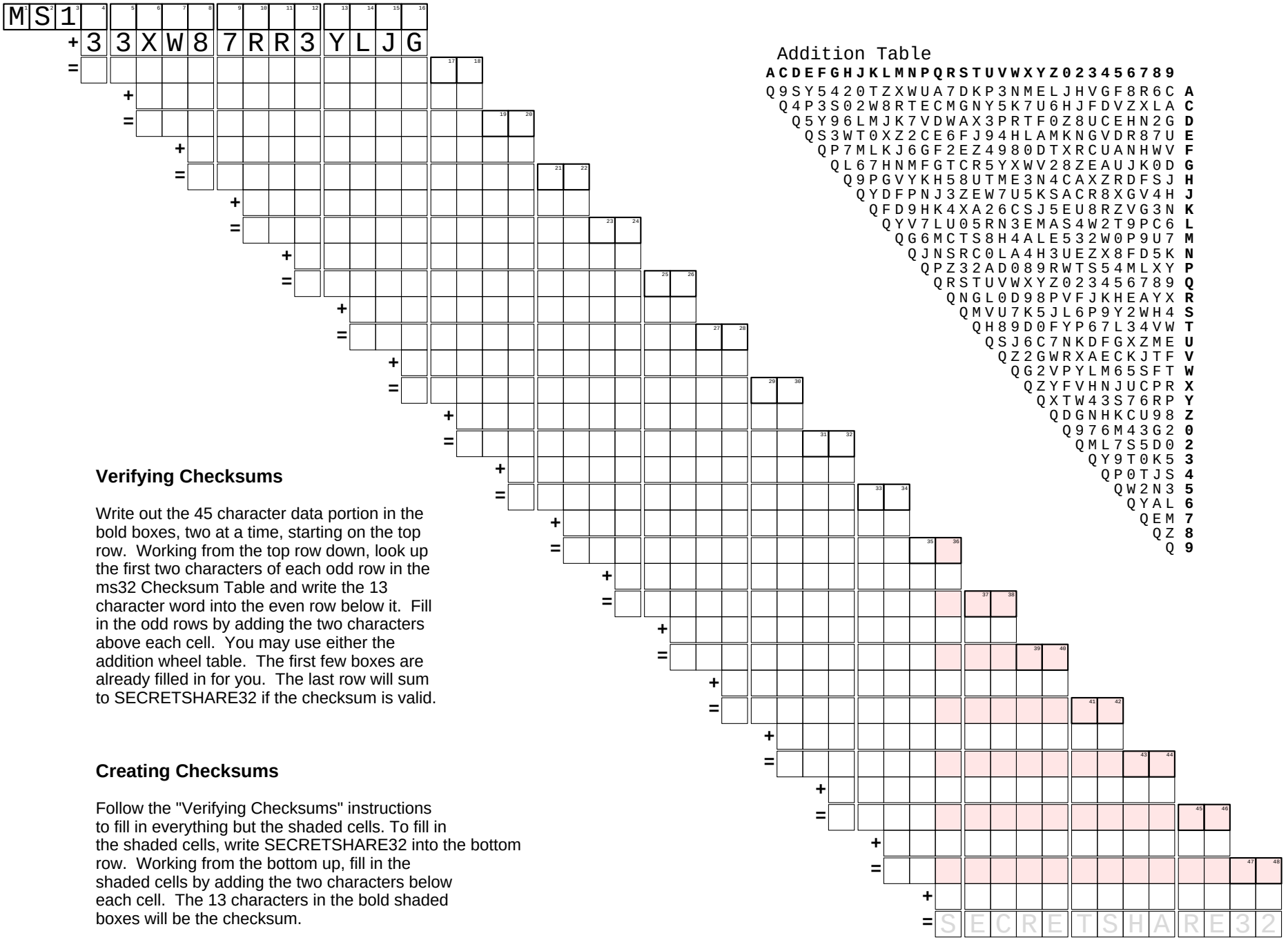
K3	6X4ARLLSDY0JN	L3	4AHKDZZJ0V0E9	M3	03ACJSSC9D0HE	N3	JFFY9AAV300TG	P3	VKDJEWWG4L0AD	Q3	74M9Q777R4022	R3	PSG4Z88DST06R	S3	DV658YYLZ30MP
K4	93R5RQQ02N5QP	L4	22PLDAADGM5TH	M4	SXT3J008Z659T	N4	D7LD9ZZNKC5E6	P4	NPMME33HJG50L	Q4	PZDVQPPPYZ5CC	R4	787UZCCJHU5G3	S4	JMVA8MMQ9X5FN
K5	U2JUREEK4GVS3	L5	N3SHDYY5HQVM8	M5	FA6EJKK7APV4M	N5	59W99MM2FRVF2	P5	262NEGGWDNVL0	Q5	CEUYQCCCMEVGG	R5	8U05ZPPTG8VCP	S5	TQA48ZZE6AVER
K6	092HR229T83X8	L6	Q7GUDHH8F03D3	M6	6JZJJ99DRW3RD	N6	82KW9GGEHV3LU	P6	E4JCEMMANU3FE	Q6	TKY0QTTT9K377	R6	5NHLZJJCKG3WH	S6	C0978332YJ304
K7	SJU7R446VS254	L7	LF74DGGCWC2LR	M7	995MJ66JYE23L	N7	CAQ89HHXSM2DW	P7	XZY3EYYZ5T2MT	Q7	5PJXQ555ZP2VV	R7	TYPKZDD83L2U9	S7	8CNH8WW4R92A8
K8	EQZFRUUNPZ6NJ	L8	KMQZDPP3R26CY	M8	VH2VJNNMFT6KC	N8	307S9770AF62F	P8	0S6XEDDTEE6UV	Q8	ANV3QAAA0N6TT	R8	ZKLPZYYWUD6MZ	S8	W2DQ888UWH66Q
K9	ZLFER88GKAR6M	L9	DYTJD66254R3D	M9	HGPUJGGQ75RL3	N9	2S4Q99952KRRQ	P9	503KEKKSWXR49	Q9	XV8PQXXXCVRZZ	R9	EF53ZLL4TJRJT	S9	44XS8UU8EGRNF

MS32 Checksum Table

TA	5C0J4ZZ3DETED	UA	ZGHA0NNF4ZTKN	VA	33KVGFFG5XT8C	WA	UHNTNQQD3JTQK	XA	P08HYDDE9STU8	YA	VFZSLYYUQYTMF	ZA	MRDEMLLN03TJM	0A	W59U2SSM8CTH3
TC	J5GN4YYH44GM0	UC	YYSU0440DWG53	VC	HA3DG00WV2G96	WC	6M52NXXTF7GZ5	XC	8RQKYTTLAUG79	YC	2993LZZ6CGGET	ZC	A02CMEE4HAGSE	0C	GCZA2KKAL5G4N
TD	NK9L499K3HURH	UD	9XAS055WFVUVF	VD	KLUPGWW0GGUAZ	WD	MEEXN882DUU6V	XD	XPD6Y227E7UXA	YD	T8GALRRMU2UPN	ZD	UD85MCC5NLUGP	0D	F6032HHUMKUDT
TE	T0EM4AAW2WSTL	UE	ALP50VVKJ4SYP	VE	WXQ9GKKHN3S42	WE	RQ9ZNLLJK9SJY	XE	7C37YJJXZ8SW4	YE	N75ELMMR8NSFM	ZE	Y5MSMQQVGXSQF	0E	3RN4200YQ0S9R
TF	VPNK466FKQ839	UF	63TE0TT3WM87M	VF	FG2GG33S0L80S	WF	YW00NCC42T8G7	XF	EKMNY44P7F850	YF	5S75LUUYMA8NP	ZF	R63AM88T5G86N	0F	KDEC2GGRUP8LE
TG	46Z74RRSFMLP4	UG	R2630JJG3QLWT	VG	SNMQGGGFSYLLQ	WG	A478NPPV4SLCW	XG	QD2MYVVCPJLYL	YG	DT0UL99AYXLR3	ZG	6PQ4M77JTNL2R	0G	0KGS2336R6L0F
TH	CQPS4WWA5PDAF	UH	WSEL0LL9V6DJH	VH	AFCWG99YD7DRU	WH	S0AFNVVPG2DYJ	XH	DHF4YPP4UGDCR	YH	Q3VJLGGSEUDLD	ZH	HMRMMNNLKFDKL	0H	ZVT72UUH7QDN4
TJ	7VX34GGMVDWLT	UJ	GU770EER5KWS4	VJ	M9L0GRRZ4JWP7	WJ	KR6GN228SXWXS	XJ	TMW5Y88NYYW6P	YJ	XATNLWWKPSWA0	ZJ	3HY6M44EW9W5A	0J	YQVL2663XVW3H
TK	PMSC4HHYT64DE	UK	HTGH0XXUNP4Z8	VK	YJFXGUUAJ94NV	WK	F5VPN44CH345Z	XK	5VCAYCCVRN4GN	YK	E2A6L33FX840A	ZK	WQJNM22XFJ4X0	0K	MH6K299WPM4R9
TL	08YZ4EE26XJSY	UL	EHUD0GGJZAJL6	VL	2WAUGJJNREJW3	WL	8GCMNMMKXDJFL	XL	6SV8YKKZJ0J4W	YL	HKFQLLL8HMJJQ	ZL	QUXFMYYGCWJMJ	0L	4TWV2TTQS8J7C
TM	SSJT4XX4A3FZK	UM	XQ2Y0HHD92FDG	VM	4ET4GDDVYWFUR	WM	CLWJNYYFP6FMD	XM	986WYFFA4CF8U	YM	GPLFLQQCSVFQJ	ZM	LTSQMMMHLEFFQ	0M	2UC9255LHSFV2
TN	8HHE433ZNKK0M	UN	380K0QQ6TDKQ9	VN	Z7W8G66M2FK3W	WN	0CTQNNN70AKKQ	XN	JQLUY772MLK23	YN	LX6MLHH07TKDL	ZN	GV4JMVVQ37KYD	0N	AMAH2RRGEHKP8
TP	MXKY4DD7C8CUG	UP	DKWT0UUXQUCNK	VP	7006GXX8PCCZA	WP	NF2AN00ZYVC9N	XP	W37PYZZKSWCEZ	YP	RHMXLTTN46C7V	ZP	5A50MSSU60CH7	0P	P2U22LL5JXCJ5
TQ	ZA8V45588UQVC	UQ	5DLR099LL8QRX	VQ	857JGLL77RQJD	WQ	2JM4NKKMMHQ4R	XQ	H20FYMM004QFJ	YQ	6V2WLJJ22PQWU	ZQ	DX98MFF995Q8W	0Q	C3DZ2XXDDAQZY
TR	QEA54KK90CP4P	UR	KF9M088AHRP6L	VR	9SY2GAAUK8PT5	WR	GKPDN55ENNPV6	XR	4W43YEED83PST	YR	CGSKLSSGZ9PH9	ZR	0ZLLMTT8DSP7H	0R	64H62YY09EPMA
TS	9NDP4NNQMJHKZ	US	NR4W0ZZCRFHEU	VS	Q65LGCCEZDHGH	WS	DU3CN33U8EH0E	XS	SY9YYUUGNMHNG	YS	AZQRL44DK0H5X	ZS	2G02MWWZE6HA5	0S	LL802PP23NHC7
TT	H7CX4PPJPL7CV	UT	PWQF0SS2EY7HJ	VT	JHPCG22TCQ7XE	WT	L3YLNRRWA57PH	XT	ZFSRYWW6FK7AX	YT	004YL88LVZ76G	ZT	C96DMUUSRH7N6	0T	DJJG2NNCT77KS
TU	DR764MMGJZNFA	UU	MNX4022S2ENXR	VU	G28YGSS3TANHG	WU	9VZRNEE5WFNSX	XU	C5KLY55Q6TNVH	YU	4JNCLAA9LLNTE	ZU	ZCU3MXX2S2NZT	0U	H0552FFZCRN8P
TV	2D5H4UU0WVYN8	UV	UAVC0DDHKHYUE	VV	0YDFGHHKHNYDJ	WV	ZZGWN77NJ8Y2U	XV	L6UJYNN8X9YKD	YV	JUE4L66ZR3Y3R	ZV	9KKUMPPDVYYC3	0V	SP7E2WW9YDYAM
TW	3JL84885ENA6W	UW	8Z8G0KKVPGA4S	VW	5MXEGVVDQVAYM	WW	EAR7N99G9CAR4	XW	Y9HZYGGU36ALY	YW	FRJ9LPPE5WAC2	ZW	7FAVM66KMMA3C	0W	T74F2447NJA5J
TX	X4644SSRH5ZHR	UX	S9Z60PPM00ZCA	VX	RURTGMM6WTZFK	WX	W6XVNJJLTLZWC	XX	NZJSYLLTLAZJF	YX	7YHHLKKW6FZ48	ZX	FWC7MDDP4UZU4	0X	UESM2ZZFA4ZEL
TY	A2394TTCQTM72	UY	T6F2066QCSM35	VY	CRGMGQQPE5MQL	WY	49DUNFFYUQM83	XY	GAEQYYYSGZMMQ	YY	9MU8LDD4DKMUW	ZY	J3NWMKK6ZRM4U	0Y	8XMT2EEJ22MSK
TZ	EZVU400USRE93	UZ	0J5N077YGCE20	VZ	UT4ZGYY9FUEMY	WZ	3DS9NDDQVGEU2	XZ	V4YEYQQ5C2EQM	YZ	PNP7LFF3A7E84	ZZ	KEWHMJJ7JTEW8	0Z	RWXJ2AAK6ZETD
T0	GFW0477DXG927	U0	7EKQ00047N99Q	V0	DQH3G445LH95T	W0	QXJKNUU36R9N9	X0	A7X2Y339WP905	Y0	SCRDLCCQT49G6	Z0	8JVYMRR0YQ9PG	00	J9YP2VV8VF9YZ
T2	W9FW4CCT7YXGU	U2	C43P0FFNXLX8Z	V2	TVSSGNNJ8MXKF	W2	X24HN66HZ0X38	X2	MJPTYHHRKDXDK	Y2	K5YVL77XNEX2C	Z2	P7T9M99FUVXR2	02	5FRQ222P59XXQ
T3	UGUF422EYF0XJ	U3	2CYX0MMPUJ0FV	V3	EP9HGPPQAK0C8	W3	58QSNGG9CZ0LF	X3	FL5VY993VQ0RC	Y3	YE3TLVV5F50YK	Z3	NN7ZMHHMXP0DY	03	XYK82CCNWG0GW
T4	RL2Q444XR755Q	U4	40J00YY7M95M7	V4	XKN7G77L6P524	W4	TSKENHH6L45DM	X4	KGZ9Y66WTH532	Y4	MW8ZLNNTWR5KY	Z4	VYGTMGGYPK5LK	04	ENQW288VFL56U
T5	6YMG4VVLU9VYS	U5	V5R80AA8Y7VTW	V5	LDZKG88X96V69	W5	JT83NWWRQWVAT	X5	0NNDYRRH5VVP6	Y5	Z4K2L22J3CVX5	Z5	4LERM33A7DV0X	05	QG3X2774KYV2V
T6	FTRR4LLVZ23JX	U6	LMMV0WW5633AC	V6	VZ6AG554M43VN	W6	PYL6NAAS7P3TA	X6	UUTXYSSY2R3HV	Y6	36WPLEEP0H3SZ	Z6	XSPGMZZWQZ3ES	06	N8FD2DDXGT3U6
T7	KU424QQN9A2Q5	U7	QVD9033TAX202	V7	N4V5GTT2UZ27P	W7	7NFNNZZ0EK2E0	X7	RTA0Y00MD5297	Y7	WDCGLXX7GQ2ZS	Z7	E8HPMAA3842TZ	07	VSLY2JJE0U2WG
T8	LWTA4FF6G068N	U8	F7NJ0CCZS56GD	V8	68JRGZZR3S6EX	W8	HPHYNTTX5Y67G	X8	2ERCYXXJQX6ZE	Y8	8LXLL00H9J69H	Z8	S4FKM55C286V9	08	9ZPN2MMSZW6F0
T9	Y3QD4JJPLSRW6	U9	JPCZ0RRE8TRPY	V9	PCENGEECX0RS0	W9	V7U5NSSARMRHP	X9	3XGGYAAFHERTS	Y9	UQD0L55VJDRV7	Z9	T2ZXM00RACR9V	09	7A2R2QQT43RQX

2A	XME9VJJ8MNTW2	3A	HLLC7UUPATTNE	4A	DN4KPWWTH2TA9	5A	LSRPC77APQT2Z	6A	4ZC5TGGX6HTLP	7A	0WJ6566VSKT3A	8A	NV3QAAA0N6TTQ	9A	7258X552KWTVW
2C	QH7YV55PRLGVG	3C	3NCE766898G3M	4C	TLJHPGGD0XGL8	5C	EUYQCCCMEVGGQ	6C	NWL4TWWQZMGAR	7C	FZ4M5UU2G6GNL	8C	4QKPAMMFTKGFZ	9C	CXNXXJJVWZGWV
2D	P4NGV44Q8AU5S	3D	S3447MMXP9UFR	4D	2ALMPFFVTYU8L	5D	C7FVCEE6AWUSC	6D	JVJET00PXEU9M	7D	GQCH5AATVCUT8	8D	5ZMDA66G05U36	9D	EY72XNND2QUK5
2E	EV0VVDDCUYSUC	3E	GGF37RR76USPT	4E	JYRLP335SAS0H	5E	Q84GCPPZXHSCS	6E	24WATHHEAQSDN	7E	SEYN599NHPSR0	8E	VM8FAZZS5DSEJ	9E	PAZWXTT43ES7U
2F	7Z9PV22LQ28XZ	3F	0XRU7YYEXJ8M3	4F	42FJPKKNVN84D	5F	8FL9CXX96E8Z2	6F	DMYSTSS7PW8HF	7F	HHW75ZZ5T08E4	8F	T4DYA99HGR8RG	9F	XNGRXVVJDH8YX
2G	8E5FVNNXL3LKJ	3G	KAJ57AAQEFLTP	4G	V3C6P002NGL9A	5G	7JWDCLLU9ZLJ6	6G	5Q4CTFF874L8E	7G	WVLK5MMD55LF9	8G	JWUVAUUWHCLNC	9G	LGETX44TJVL5K
2H	2RH8V77TZTD2W	3H	M8367SSDYNDHA	4H	PTM5PZZ8WJDEP	5H	NGDRCJJ3CCDWX	6H	E6KKTYY2R0DM9	7H	RKUC5KKQFWD4E	8H	L5LZA33R2ZD0Y	9H	JJ69XCCX0KDG2
2J	V0SXVCCD68WGV	3J	ATKM7KKTULW4L	4J	88U4PYYPK7WMR	5J	4Y2ZC55HQ5WVY	6J	LK3HTZZVMRWE8	7J	96ME5SSX3ZWHM	8J	ECCRAHH9JWWDX	9J	57AYX77QH6W2G
2K	NCX0V88JAS467	3K	ZUQJ7FF5MG48D	4K	CS2UPMM73F4F3	5K	2NUTCTTG8R47K	6K	QP87TAANU54T4	7K	6DDS500EK449F	8K	X0W2AGG64E4L5	9K	TFTDXPPLSD4C6
2L	AYJ4VFFUVVJ8R	3L	VQ5G788625J6S	4L	KV7XP44SQ4J5V	5L	Y0G3C99XKLJRT	6L	WANYTNNADGJKG	7L	53E25PPH8FJC5	8L	GN6SAXX5Y9JZF	9L	94LHX003P3J98
2M	ZNYUVKKRTMF43	3M	NHZP7CC9DRFGZ	4M	FMG0P2208ZFX7	5M	MC7CC66E3GF3E	6M	329DTVVZ2LFY6	7M	TX0R577GQ7F2X	8M	HYVEAEETRJFSM	9M	6ZF7XSSWXXFH4
2N	45PWVPP59UKCU	3N	YS8N700JRYK90	4N	7UDAPAACF9KTN	5N	VLM2CDDWL0KU5	6N	XDQLTMM4YCKFH	7N	UP235FFLWEK8T	8N	QRFTAWWUD4KAK	9N	D9VVX88EGPK6C
2P	F9QNVAAGWDCT0	3P	CPXW7NNWG4CKU	4P	ZDVQPPPYZ5CCQ	5P	SW6HC33J57C08	6P	6UPZT88F0FC6Y	7P	QSTV544R9GC5C	8P	UJGKAJJQXYCW9	9P	35D3XMM9RSCFT
2Q	S73MVYY33KQML	3Q	P6HX722HHWQXV	4Q	MKAGPCCAA0QGS	5Q	F4TLCGGTT9QLH	6Q	R8S2T77SSJQ25	7Q	ET6Y5VV66NQYG	8Q	9FE7ATTEELQ74	9Q	G0UEXZZUUTQEM
2R	J6TRVXXNEJPZX	3R	R7D77GG4L2PL4	4R	EJ8SP66L4TP3F	5R	T338C22FRPPXW	6R	PR2JTUUJCKPND	7R	M0QU5WWCJHPA3	8R	8DRXAFFM3MP8V	9R	2TXPXQQ750PQZ
2S	HSMKVRRKDCHP9	3S	X5AT7DDSTQHUK	4S	UCH9PLL6PPHJ2	5S	WMPJC00VHTH9D	6S	YF68TEEHVUHSW	7S	79SF5TTAXAH7J	8S	Z8NNAVV793HY0	9S	0PK5X99MQ9HRP
2T	9AW3V33YH470T	3T	5EGV7LLZ3D7JC	4T	W4ZZPDDGMV7UY	5T	UK54CAA7DX7TR	6T	KY0QTTT9K377Q	7T	VG9W5EE0US7SU	8T	S2X5A77VLU72P	9T	AVRNXHHF6G7D0
2U	LQGDVTT7YGN76	3U	WYWS799CZSNRF	4U	5GY7PHHJG3ND4	5U	XTJFC88Y7MN6J	6U	VEFUT33L9VN03	7U	K4RJ5RR40DNPD	8U	2HQGAYYKVPNMS	9U	8390XDDNF4NU7
2V	CWZQVVVECXYYQ	3V	F2YA7ZZL77YEN	4V	NXWNPSS45LYH0	5V	P9CYCQQRZ4YQG	6V	THR3TKKCEZY4T	7V	3MFL5YYJNRYMH	8V	DE29ARR3S0YP2	9V	QL0ZX2254MYXY
2W	R3FSVHHZ0EADF	3W	J40D7EEYFPAS6	4W	GE9RPTTWRQA7X	5W	66N5CMMC42AFP	6W	SGGPTDDRWAAUZ	7W	2YZ05LLFYUAJ7	8W	KXP4ACC28SAGR	9W	MQYJX330ZYA0D
2X	5KVZVQQ4P7ZQY	3X	9J2L7WWN8XZAH	4X	L7Q3PUUED8ZNT	5X	DAKXCVV0MDZYV	6X	80DNT665Q6Z30	7X	AR8A5GG72MZLN	8X	PPY8A00AFHZ9W	9X	V8PQXXXCVRZZQ
2Y	0F8JVMMWKPMFD	3Y	7DP0744GSEM57	4Y	YPTPP88Z6CM6Z	5Y	KZAKCHH5VJMD9	6Y	USXRTPP0H9MCX	7Y	XUVD5NN9AYMK6	8Y	670HA55X7GMV8	9Y	HC2SXAARMUMTF
2Z	TP6TVLL2XFEJK	3Z	69UK733VQ3E09	4Z	QFKCPRRX2SEPE	5Z	J2Q0CNNSU6EK7	6Z	CCM6T99T8DERA	7Z	Z5355HHPDVEDP	8Z	7KJWASSZWQEHU	9Z	NSHFXEE8T5ESJ
20	62CCVWWMSZ9AE	30	TW797QQAK69Q2	40	3Z5TPJJHUM9WK	50	RPZUCZZP239E3	60	FNEFT5563X9VJ	70	NLN85XXSM89ZW	80	0ASAAPPNCT9CN	90	ZM46XGGKAL9LA
22	UXLEVGGAGWXLM	32	DZEY7XXMWKXZG	42	HWN2P553YHXV5	52	9D9ACYY8JAXMN	62	0L7GTJJUF2XWS	72	4N5X5QQKRTXQV	82	F3HUA884Q8X63	92	YHJMXWWS9NXAL
23	WT27V660JR034	33	L0VR755F5M0VX	43	9RXDPXXR760Z6	53	HQS6CKK4GS04A	63	AJT0TQQWN80Q7	73	87PP5JJYEX0WZ	83	MUZMA4486205L	93	K68UXUUZL70N3
24	3UUHV99S455R8	34	QC627TTKNV575	44	65SYPEEUED5SG	54	GHXNCFF208580	64	Z9AXTLL35S5JV	74	CFHG5DDM735US	84	YT5JA22CAA5XD	94	FD34XRRACF5PR
25	G8DLVUUF20VNH	35	ERTZ7JJ0VHVWY	45	R0PVPQQ9XKVQC	55	3VHMCSSNSUVHL	65	M7VWTXXGTTVZU	75	PJXQ555ZP2VVQ	85	AS96ANNPZXVKA	95	SKQAX66Y8JV3N
26	MG45V0065Q39P	36	2VNF7PPUJC3CJ	46	SQE8PNNKCE3KW	56	ZR0SCRRQWN3PF	66	G359T44M4Y352	76	JA7T5883L936K	86	WLA3AQQJUF3QT	96	RECKXFFHEA389
27	YLRAVSS9NH2HN	37	4M9Q777R4022Q	47	0H0WPVVFLW2YU	57	A5EECUULFY2NM	67	HXZVT22YJN2XC	77	D2GZ5CCWCJ2GY	87	3GTCALLDM72JE	97	UWWLXKKG7224H
28	DDA2VEEV796S5	38	UFMH7HH2CA6D8	48	X93EP99QJU6RM	58	5X8WC44KYK65U	68	75UMTRRDLP6PL	78	YCK453384Q60R	88	C640AKKYKV647	98	4USGXLLPNC6JS
29	KJK6VZZHF6REA	39	8KS87VV30ZRYW	49	A66FP77M9RR2J	59	0EV7CWWDNFRA4	69	9THTTCCKG7RGK	79	L8A9522UZLRX2	89	R97LADDLPNRUH	99	WRMCXYY6Y8RME

ms32 Checksum Worksheet



Addition Table

	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9	
Q	9	S	Y	5	4	2	0	T	Z	X	W	U	A	7	D	K	P	3	N	M	E	L	J	H	V	G	F	8	R	6	C	**A**
Q	4	P	3	S	0	2	W	8	R	T	E	C	M	G	N	Y	5	K	7	U	6	H	J	F	D	V	Z	X	L	A		**C**
Q	5	Y	9	6	L	M	J	K	7	V	D	W	A	X	3	P	R	T	F	0	Z	8	U	C	E	H	N	2	G			**D**
Q	S	3	W	T	0	X	Z	2	C	E	6	F	J	9	4	H	L	A	M	K	N	G	V	D	R	8	7	U				**E**
Q	P	7	M	L	K	J	6	G	F	2	E	Z	4	9	8	0	D	T	X	R	C	U	A	N	H	W	V					**F**
Q	L	6	7	H	N	M	F	G	T	C	R	5	Y	X	W	V	2	8	Z	E	A	U	J	K	0	D						**G**
Q	9	P	G	V	Y	K	H	5	8	U	T	M	E	3	N	4	C	A	X	Z	R	D	F	S	J							**H**
Q	Y	D	F	P	N	J	3	Z	E	W	7	U	5	K	S	A	C	R	8	X	G	V	4	H								**J**
Q	F	D	9	H	K	4	X	A	2	6	C	S	J	5	E	U	8	R	Z	V	G	3	N									**K**
Q	Y	V	7	L	U	0	5	R	N	3	E	M	A	S	4	W	2	T	9	P	C	6										**L**
Q	G	6	M	C	T	S	8	H	4	A	L	E	5	3	2	W	0	P	9	U	7											**M**
Q	J	N	S	R	C	0	L	A	4	H	3	U	E	Z	X	8	F	D	5	K												**N**
Q	P	Z	3	2	A	D	0	8	9	R	W	T	S	5	4	M	L	X	Y													**P**
Q	R	S	T	U	V	W	X	Y	Z	0	2	3	4	5	6	7	8	9														**Q**
Q	N	G	L	0	D	9	8	P	V	F	J	K	H	E	A	Y	X															**R**
Q	M	V	U	7	K	5	J	L	6	P	9	Y	2	W	H	4																**S**
Q	H	8	9	D	0	F	Y	P	6	7	L	3	4	V	W																	**T**
Q	S	J	6	C	7	N	K	D	F	G	X	Z	M	E																		**U**
Q	Z	2	G	W	R	X	A	E	C	K	J	T	F																			**V**
Q	G	2	V	P	Y	L	M	6	5	S	F	T																				**W**
Q	Z	Y	F	V	H	N	J	U	C	P	R																					**X**
Q	X	T	W	4	3	S	7	6	R	P																						**Y**
Q	D	G	N	H	K	C	U	9	8																							**Z**
Q	9	7	6	M	4	3	G	2																								**0**
Q	M	L	7	S	5	D	0																									**2**
Q	Y	9	T	0	K	5																										**3**
Q	P	0	T	J	S																											**4**
Q	W	2	N	3																												**5**
Q	Y	A	L																													**6**
Q	E	M																														**7**
Q	Z																															**8**
Q																																**9**

Verifying Checksums

Write out the 45 character data portion in the bold boxes, two at a time, starting on the top row. Working from the top row down, look up the first two characters of each odd row in the ms32 Checksum Table and write the 13 character word into the even row below it. Fill in the odd rows by adding the two characters above each cell. You may use either the addition wheel table. The first few boxes are already filled in for you. The last row will sum to SECRETSHARE32 if the checksum is valid.

Creating Checksums

Follow the "Verifying Checksums" instructions to fill in everything but the shaded cells. To fill in the shaded cells, write SECRETSHARE32 into the bottom row. Working from the bottom up, fill in the shaded cells by adding the two characters below each cell. The 13 characters in the bold shaded boxes will be the checksum.