

Steps

1.) pick out message you want to encrypt:

"Common Sense is not so Common"

2.) Pick key size (can be any number):

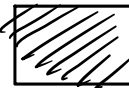
"key size you pick will be for how many columns"

3.) Draw Columns and fill in with words

1	2	3	4	5	6	7	8
C	O	M	M	O	N		S
e	n	S	e		i	S	
n	O	t		S	O		C
O	m	m	O	n	.		

★ Remember
Spaces
marked with
↓

★ Remember
empty left
over boxes
marked
with
↳



4.) Now mark all of character positions starting from 0 forward excluding the left over boxes

1	2	3	4	5	6	7	8
C	O	M	M	O	N		S
0	1	2	3	4	5	6	7
e	n	S	e		i	S	

when putting columns together
you get

“Cengonomm stumme oo snnio. s sc”

1st																													2nd																													3rd																													4th																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Figure 7-7: Arrows pointing to what `message[currentIndex]` refers to during the first iteration of the for loop when `column` is set to 0

Although the value in `currentIndex` is less than the length of the `message` string, you want to continue concatenating the character at `message[currentIndex]` to the end of the string at the `column` index in `ciphertext`. When `currentIndex` is greater than the length of `message`, the execution exits the `while` loop and goes back to the `for` loop. Because there isn't code in the `for` block after the `while` loop, the `for`

loop iterates, `column` is set to 1, and `currentIndex` starts at the same value as `column`.

Now when line 36 adds 8 to `currentIndex` on each iteration of line 30's `while` loop, the indexes will be 1, 9, 17, and 25, as shown in [Figure 7-8](#).

Diagram illustrating the 26-letter alphabet with arrows indicating the 1st, 5th, 2nd, 6th, 3rd, 7th, 4th, and 8th letters. The letters are: C, o, m, m, o, n, s, e, n, s, e, i, s, n, o, t, s, o, c, o, m, m, o, n, . Below the letters are their corresponding numbers from 0 to 29.

C	o	m	m	o	n		s	e	n	s	e		i	s		n	o	t		s	o		c	o	m	m	o	n	.
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

Figure 7-8: Arrows pointing to what `message[currentIndex]` refers to during the second iteration of the `for` loop when `column` is set to 1