

Problem name: Cipher
Input File: CipherIn.txt

In simple columnar transposition cipher, the plaintext is written horizontally onto a piece of graph paper with fixed width. The cipher text is then read vertically. For example, the sentence of “THE WEATHER IS SO NICE THAT WE WANT TO PLAY” is written as the following using a graph paper width of six:

T	H	E	W	E	A
T	H	E	R	I	S
S	O	N	I	C	E
T	H	A	T	W	E
W	A	N	T	T	O
P	L	A	Y		

The resulting output in this case would be:
TTSTWPHHOHALEENANAWRITTYEICWTASEEO

Given a string and a positive integer width, output the cipher text.

Inputs:

The number of columns to encipher the text over, followed by the phrase to encode (including spaces between each word).

Outputs:

The enciphered phrase.

Sample Input:

6
THE WEATHER IS SO NICE THAT WE WANT TO PLAY

Sample Output:

TTSTWPHHOHALEENANAWRITTYEICWTASEEO