[Are you confused] One way to confuse other people is to write a secret message out in row and then read the message out in column. Without knowing the length of a row, it is not easy to know what the original secret message is.

Here is an example to express the secret message "**hello world!**" with a row length of 3. The confusing message will then be "**hlwleoodl r!**". It will take a while for others to recover the original secret message from the confusing message.

h	e	l
l	o	
w	o	r
l	d	!

Column 1 = **hlwl**
Column 2 = **eood**
Column 3 = **l r!**
Message = **hlwleoodl r!**

Here is another example with a row length of 5, when some columns cannot be completely filled up. The remaining unused parts will not be included in the confusing message. Hence the final confusing message is "**h dew!lolrol**".

h	e	l	l	o
	w	o	r	l
d	!			

Column 1 = **h d**
Column 5 = **ol**
Message = **h dew!lolrol**

Write a Python program to recover the original secret message from a confusing message in the first input line, when given the length of a row in the second input line. Print the recovered original message in the first output line and the length of the message in the second output line.

Sample input:	Sample output:
hlwleoodl r! **3**	**hello world!** **12**
hore llwdlo! **4**	**hello world!** **12**
H deW!lolrol **5**	**Hello World!** **12**
Oyo eoece nn nop rso etfteiwa **esur ouhosr tatow sep is g wacer** **lttemei** **6**	**One way to confuse other people** **is to write a secret message out** ** in row** **71**
Ots iics noepstraie e eegn coot ** te wotpoa ranhl mooyfeewseuw** **ur rest** **8**	**One way to confuse other people** **is to write a secret message out** ** in row** **71**