Online Assignment on String and pointer (B1)

Solve the problem below. You have *30 minutes*. After you are done, rename the file containing your source code as your student ID (so, if your student ID is 2005061, the name of your file should be 2005061.c). Then submit that file to Moodle. Make sure you submit a file containing the source code.

Failure to not follow these instructions will result in penalties.

Suppose you and your friend are on a secret mission and you want to communicate in such a way that even if someone sees your messages, no one will be able to understand it. So you adopted a **ciphering** technique where each letter in the plaintext is replaced by a letter which is some fixed number of positions down to that alphabet. That fixed number is your **key**.

For example, if your key is **13** then A will be replaced by N, B by O and so on just like the following figure:

So when your original message is **HELLO**, after ciphering it will become **URYYB.**
On top of that your friend suggested that the whitespaces will be replaced by one or more small letters. So **HELLO WORLD** will become **URYYBsaJBEYQ.**

Now your task is to write a program that will do the decipher operation which means retrieve the original message from a ciphered text. The input will be an integer which is the key followed by an encrypted message.

Sample Input	Sample Output
5 XYTU	STOP
13 URYYBsJBEYQ	HELLO WORLD
13 URYYBsaeepJBEYQ	HELLO WORLD

N.B.

- ★ The original message will only contain **capital letters and whitespaces**.
- ★ You ***can not*** use any **global** or **static** variables while solving this problem.
- ★ You ***can not*** use any library function for this task (other than **I/O**) except ***strlen***.
- ★ You ***can*** assume that the provided input will ***always*** be valid.