

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 **URYBYB**.

On top of that your friend suggested that the whitespaces will be replaced by one or more small letters. So **HELLO WORLD** will become **URYBYBsajBEYQ**.

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.