

ANKARA UNIVERSITY
COMPUTER ENGINEERING DEPARTMENT
Computer Programming II
Spring 2022-23

LAB3 Quiz
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Date: 17/03/2023
Duration : 80 mins.

Write a C program which reads a sequence of characters, until the EOF, from standard input (stdin)

- converts and prints the lower case letters to upper case letters, using **toUpper function** that you will write,
- converts and prints the upper case letters to lower case letters, using **toLower function** that you will write,
- combines the given digits (in the given order) together to form a number, using **toNumber function** that you will write; and prints a space character at each digit position in the original input (see the example I/O below). The generated number will be printed when the character stream terminates (with the EOF).
- prints all the other characters, i.e. white space chars, punctuations etc., as they are at their original positions.

Note that the order of the characters in the stream is preserved.

Example

Input:

> aH7 t3 2 n9+! 5

Output:

>Ah T N +!
73295

I/O format:

input: <character stream>

output: <converted character stream>\n<Resultant Number in the stream>

Hint: Remember that **EOF** is a predefined macro which stands for End Of File. You can capture EOF using scanf function as follows:

```
char x;  
while(scanf("%c",&x) != EOF)  
{    <do something> }
```

Good luck 😊