

Introduction to C Programming

Module 14.5: Practice Day 01

(Codeforces Links and Practice Questions)

Topics:

- 1. Nested Loop
- 2. Pattern Printing
- 3. Functions

Codeforces Problem Links:

- 1. <u>P. Shape1</u>
- 2. T. Shape2
- 3. W. Shape3
- 4. H. Sorting

Question: Take a positive integer N as input and print the pattern shown in the sample input output.

Sample Input	Sample Output
5	*
	**

7	*
'	**

Question: Take a positive integer N as input and print the pattern shown in the sample input output.

Sample Input	Sample Output
5	*****

	*
8	*******

	*

Question: Make a function named **char_to_ascii()** which will take a character as parameter and it will convert that character to ascii value and return through that function. So, the return type will be int. Now in the main function take a character input and call that function to get the integer value of it and print that in the main function.

Bonus: You can also try this with 4 different types of function use cases.

Sample Input	Sample Output
а	97
A	65
0	48

Question: Make a function named **small_to_capital()** which will take a small alphabet as a parameter (which is a character) and it will convert that small alphabet to capital alphabet and return through that function. So, the return type will be char. Now in the main function take a character input which will be small alphabets and call that function to get the capital alphabet and print that in the main function.

Bonus: You can also try this with 4 different types of function use cases.

Sample Input	Sample Output
а	A
z	Z
q	Q

Question: Make a function named **capital_to_small()** which will take a capital alphabet as a parameter (which is a character) and it will convert that capital alphabet to small alphabet and return through that function. So, the return type will be char. Now in the main function take a character input which will be capital alphabets and call that function to get the small alphabet and print that in the main function.

Bonus: You can also try this with 4 different types of function use cases.

Sample Input	Sample Output
A	а
Υ	у
Q	q