

Introduction to Computer Science (MAC 101)

Professor: Andi Toce

Homework 3

(Due Wednesday, October 26, midnight via email)

Assignment

Reuse the asterisk diamond program and create a function **diamond** (.....) that takes two values, an integer for the side of the diamond and a char value for the character printed and outputs the corresponding diamond shape. The function has default values, 5 for the side and * for the character. The user can choose to use the default values or specify new values.

Output Sample 1

```
Do you want to use the default values? (Y/N): y

  *
 ***
*****
*****
*****
*****
  *
  *
```

Output Sample 2

```
Do you want to use the default values? (Y/N): n
Enter an integer for the side of the diamond: 3
Enter a char value for the character printed: @
 @
@@@
@@@@@
 @@@
 @
```

Note: The output should look exactly as shown the example above

How to submit

Save the file as LastName.FirstName.HW3.cpp

E-mail me the file by the due date. Late submissions will **NOT** be accepted

Grading

Correctness – 50%

Efficiency – 30%

Code style and appearance – 20%