

Computer Science Fundamentals

CS208

HW4

- a. Write a C++ program that computes and outputs the area of a rectangle or a triangle. The Program prompts the user for the figure type ("T" for triangle, or "R" for rectangle), base and height, and then calculates and displays the area of the figure.

Hint: Area of rectangle = base * height,
Area of triangle = $\frac{1}{2}$ (base * height)

- b. Write a C++ program that reads two integers Num and Max. The output of the program is the multiplication table of Num from 1 to Max. Each output line should be in the following format:

$$\mathbf{Num \times i = Num * i}$$

For example if $Num = 5$ and $Max = 12$

the output will be

```
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
.
.
.
5 x 12 = 60
```

- c. Write a C++ program that computes the sum of all odd integers from 1 to 50.