Lab: Functions

This document defines the exercises for the ["C++ Fundamentals" course @ Software University](). Please submit your solutions (source code) of all below-described problems in [Judge]().

1. Sign of Integer Numbers

Create a function that prints the **sign** of an integer number **n**:

Examples

Input	Output
2	The number 2 is positive.
-5	The number -5 is negative.
0	The number 0 is zero.

2. Grades

Write a function that **receives a grade** between **2.00** and **6.00** and **prints the corresponding grade in words**

- 2.00 – 2.99 - "**Fail**"
- 3.00 – 3.49 - "**Poor**"
- 3.50 – 4.49 - "**Good**"
- 4.50 – 5.49 - "**Very good**"
- 5.50 – 6.00 - "**Excellent**"

Examples

Input	Output
3.33	Poor
4.50	Very good
2.99	Fail

3. Smallest of Three Numbers

Write a function to print the smallest of three integer numbers. Use an appropriate name for the function.

Examples

Input	Output
2 5 3	2
600 342 123	123
25 21 4	4

Follow us:

4. Printing Triangle

Create a function for printing triangles as shown below:

Examples

Input	Output
3	1 1 2 1 2 3 1 2 1
4	1 1 2 1 2 3 1 2 3 4 1 2 3 1 2 1

5. Calculate Rectangle Area

Create a function that calculates and **returns** the area of a rectangle by given width and height:

Examples

Input	Output
3 4	12
6 2	12

6. Math Power

Create a function that calculates and returns the value of a number raised to a given power:

Examples

Input	Output
2 8	256
3 4	81

Follow us:

SoftUni