Lab: Functions

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**.

Print:

- **"The number {number} is positive."** – if the number < 0
- **"The number {number} is negative."**– if the number > 0
- **"The number {number} is zero."** – if the number == 0

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**.

Print the corresponding grade in words:

- 2.00 – 2.99 – print "**Fail**"
- 3.00 – 3.49 - print "**Poor**"
- 3.50 – 4.49 - print "**Good**"
- 4.50 – 5.49 - print "**Very good**"
- 5.50 – 6.00 - print "**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	123

342 123	
25 21 4	4

4. Printing Triangle

Create a function **for printing triangle** as shown in the examples 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