Lab: Conditional Statements Advanced

1. Fruit or Vegetable

Write a function to **check for fruit or vegetable**:

- Receive an **item** from the greengrocery
  - **Fruits**: banana, apple, kiwi, cherry, lemon, grapes
  - **Vegetables**: cucumber, pepper, carrot, onion
- Print: "**vegetable**", "**fruit**" or "**unknown**"

Examples

Input	Output
banana	fruit

Input	Output
carrot	vegetable

***Hint**: Implement the cases within the function

2. Day of Week

Write a function to **print the day of week as words**:

- Receives integer **n**: the **day of the week** in range [1..7]
- Prints the **name of the day** (as words, in English)
- Prints "**Error**" if the number is not in the given range

Examples

Input	Output
1	Monday

Input	Output
7	Sunday

Input	Output
9	Error

***Hint:** Use the weekday number in each case to calculate the weekday name
Use the switch statement to select one of many code blocks to be executed.

3. Vowel or Consonant

Write a function to **check a letter for vowel or consonant**:

- Receives a letter from the English alphabet
- Print either "**Vowel**" or "**Consonant**"

Examples

Input	Output
a	Vowel

Input	Output
x	Consonant

Input	Output
E	Vowel

Input	Output
i	Vowel

Input	Output
b	Consonant

***Hint:** Use “letter” as a variable name

4. Product of 3 Numbers' Sign

Calculate the **sign of the product of 3 numbers**:

- Function should receive 3 floating-point numbers
- Print the **sign of the product** of the entered 3 numbers: **positive**, **negative** or **zero**

- Try to do this without multiplying the 3 numbers

Examples

Input	Output
2*3*-1	Negative

Input	Output
-3*-4*5	Positive

5. Sorted Numbers

Write a function, which checks for **sorted 3 numbers**:

- Receives 3 real numbers
- Prints "**Ascending**" if the numbers are in ascending order
- Prints "**Descending**" if the numbers are in descending order
- Prints "**Not sorted**" in any other case

Examples

Input	Output
1 2 3	Ascending

Input	Output
3 1 2	Not sorted

6. Vacation Expenses

Write a function, which **calculates vacation expenses**:

- Receives **season**, **accommodation type** and count of the **days**
- Prints the **total expenses**, based on the **price table** below, formatted to the **2nd** digit after the decimal point

Season	Hotel	Camping	Discount
Spring	30	10	20%
Summer	50	30	0%
Autumn	20	15	30%
Winter	40	10	10%

Example

Input	Output
Winter Hotel 5	180.00

7. Cinema

Calculate **the price for all the tickets for a cinema movie**:

- A function receives the **type** of the movie (string), the **rows** (number) and the **seats per row** (number) in the cinema
- Prints the **total price** for all seats formatted to the 2nd digit after the decimal point

Type	Price
Premiere	12.00
Normal	7.50
Discount	5.00

Example

Input	Output
Normal 12 9	810.00

8. Operations with Numbers

Write a function to **apply an operator for given two numbers**:

- Receives **two real numbers** and **math operator**
- The math operator could be: "**+**", "**-**", "*****", "**/**" and "**%**"
- The output should be in the following format:
  "**{N1} {operator} {N2} = {result}**"

Example

Input	Output
10 12 +	10 + 12 = 22

9. ATM

Write a function to **simulate an ATM withdrawal**:

- Receives 3 numbers: **balance**, **withdraw** and **limit**
- Print "**The withdrawal was successful.**" if the balance is enough
- Print "**The limit was exceeded.**" if the limit is exceeded
- Print "**Insufficient availability.**" if the balance isn't enough

Examples

Input	Output
420 20 25	The withdrawal was successful.

Input	Output
10 50 20	The limit was exceeded.

10. Biggest of Five Numbers

Write a function to **find the biggest among 5 numbers**

- Receives 5 integers
- Print the biggest of them

Examples

Input	Output
1 2 3 4 5	5

Input	Output
-1 -2 -3 -4 -5	-1