Lab: Conditional Statements Advanced

1. 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 7 9	Monday Sunday Error

Input	Output
0 5 2	Error Friday Tuesday

***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.

2. 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

3. 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

4. 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

5. 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

6. 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.