Lab: Arrays

Test your tasks in the Judge system: https://judge.softuni.org/Contests/4427

1. Day of Week

Write a program that:

- Reads an integer number from the console
- If the number is in range [1…7] print:
  - "**Monday**" for number 1
  - "**Tuesday**" for number 2
  - "**Wednesday**" for number 3
  - "**Thursday**" for number 4
  - "**Friday**" for number 5
  - "**Saturday**" for number 6
  - "**Sunday**" for number 7
- If the number is out of the given range print "**Invalid day!**"

Example

Input	Output
1	Monday

Input	Output
2	Tuesday

Input	Output
3	Wednesday

Input	Output
4	Thursday

Input	Output
5	Friday

Input	Output
6	Saturday

Input	Output
7	Sunday

Input	Output
9	Invalid day!

2. Sum an Array

Write a program that:

- Read an **array of integers** (from a single line separated with a space)
- Print the **sum** of all elements in the given array

Example

Input	Output
5 3 6 3 4	21

Input	Output
20 30 -5	45

Input	Output
25 45 -3	67

3. Reverse an Array

Write a program that:

- Read an **integer number N** from the console
- After that read **N integer numbers** from the console, each on separate line
- Store the numbers in the array of integers
- Reverse the numbers in the array

- Print elements of the array on a single line, space-separated

Example

Input	Output
3 10 20 30	30 20 10

Input	Output
4 10 20 30 40	40 30 20 10

4. Even and Odd Subtraction

Write a program that:

- Read an **array of integers** (from a single line separated with a space)
- Calculates the difference between the sum of the even and the sum of the odd numbers in an array
- Print the difference

Example

Input	Output	Comments
1 2 3 4 5 6	3	Sum even: 2 + 4 + 6 = 12 Sum odd: 1 + 3 + 5 = 9 Difference: 12 − 9 = 3
3 5 7 9	-24	Sum even: 0 Sum odd: 3 + 5 + 7 + 9 = 24 Difference: 0 − 24 = −24
2 4 6 8 10	30	Sum even: 2 + 4 + 6 + 8 + 10 = 30 Sum odd: 0 Difference: 30 − 0 = 30

5. Equal Arrays

Write a program that:

- Read **two arrays with the same length** from the console
- **Check whether they are identical or not**
    - o   If the arrays are identical, print: "**Arrays are identical.**"
    - o   If the arrays are NOT identical, print: "**Arrays are not identical.**"

Note: Arrays are identical if their elements are equal.

Example

Input	Output
10 20 30 10 20 30	Arrays are identical.
1 2 3 4 5 1 2 4 3 5	Arrays are not identical.
1 10	Arrays are not identical.

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6. Common Elements

Write a program that:

- Read **two integer arrays with the same length** from the console
- Prints common elements in two arrays, space-separated

Examples

Input	Output
20 30 40 50 30 10 15 50	30 50
7 8 9 10 1 2 3 7	7
1 2 3 4 5 5 4 3 2 1	1 2 3 4 5

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