

LAB :- 5 (LIST)

1.Sum of list

Given an array compute the sum of all elements.

Input :-

A = [1,2,3,4,5]

Output:

15

2.Copy the Array

You are given a constant array A and an integer B.

You are required to return another array where $\text{Arr}[i] = \text{A}[i] + \text{B}$.

Input :-

A = [1,2,3,2,1]

B = 3

Output:

[4,5,6,5,4]

3.Max and Min of an Array

Take input an array A of size N and write a program to print maximum and minimum elements of the input array .Here N represents the length of the array .

Input :-

N = 5

A = 1 2 3 4 5

Output:

5 1

4.Search Element

You are given array A and an integer B. You have to tell whether B is present in array A or not.

Input:-

N = 4

A = 1 5 9 1

5

Output:

1

5.Negative Integers

Write a program to print all negative numbers from input array A of size N.

Input:-

N = 5

A = 1 -5 2 -8 -4

Output:

-5

-8

-4

6.Even Odd Elements

For array A, you have to find the value of absolute difference between the counts of even and odd elements in the array.

Input:

1 2 3 4

Output:

0

7.Separate Odd Even

You are given an integer array A.

You have to print the odd and even elements of array A in 2 separate lines.

Input:

1 2 3 4 5

Output:

1 3 5

2 4

8.Square of Array

You are provided with an integer array A. Return another array B of size same as that of A such that $B[i] = A[i]^2$

Input:

A=[2, 6, 8, 1]

Output:

[4, 36, 64, 1]

9.Cube of Array

You are provided with an integer array A. Return another array B of size same as that of A such that $B[i] = A[i]^3$

Input:

A=[2, 6, 8, 1]

Output:

[8, 216, 512, 1]

10.Reverse

Given an array A, Find the reverse of it.

Input:

A = [3, 5, 1, 2, 1, 2]

Output:

[2, 1, 2, 1, 5, 3]