

1. Write a c program, declare an array with a size of 5. Store 10, 20, 30, 40 and 50 in it and print them as output.

Input	output
	10, 20, 30, 40, 50

2. Write a C program to take input from users and store them in an array. Take 4 even years as input.

Input	output
2000	2000
2002	2002
2004	2004
2006	2006

3. Write a c program to take input in an array and print it.

Input	output
Enter array size: 10	Your elements: 4 12 7 19.....
4	a[0]=4
12	a[1]=12
7	a[2]=7
19	a[3]=19
.....

4. Write a C program to take 7 values from the user in an array. Use a loop to input those values from the user. As output, print those values.

Input	output
5	Inputted values:
10	5
15	10
20	15
25	20
30	25
35	30
	35

5. Write a C program to take 7 values from the user in an array. Now input values in that array and print the values in reverse order.

Input	output
5	Inputted values:
10	35
15	30
20	25
25	20
30	15
35	10
	5

6. Write a c program to take input n times. Here the value of n will be user defined. As output, print the inputted values.

Input	output
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Enter array size: 3	Your values:
4	4
5	5
6	6

7. Write a c program to take 10 user input in an array and print the sum of those 10 values.

Input	output
Enter array size: 10 13 17 5 8 35	Sum = 348

8. Write a C program that would calculate the average of all the elements in an array.

Sample Input	Sample Output
Enter Array Elements: 10 15 15	Avg = 13.3

9. Write a C program to find the maximum value in an array.

Input	output
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Array size = 10	Maximum: 55
55	
23	
20	
13	
.....	

Exercise 10: Finding Maximum Element in a 2D Array

Task: Write a program to find the maximum value in a 3x3 array.

Sample Input	Sample Output
Enter 9 elements: 5 3 9 1 6 8 2 7 4	Maximum element = 9

Exercise 11: Finding Maximum Element in a 2D Array

Task: Write a program to find the maximum value in a row, column array.

Sample Input	Sample Output
3 3 Enter 9 elements: 5 3 12 1 6 8 2 7 4	Maximum element = 12

Exercise 12: Transposing a Matrix

Task: Transpose a 2x3 matrix and print the result as a 3x2 matrix.

Sample Input	Sample Output
Enter matrix elements: 1 2 3 4 5 6	1 4 2 5 3 6

Exercise 13: Matrix Addition

Task: Write a program to add two 2x2 matrices and print the result.

Sample Input	Sample Output
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Matrix A: 1 2 3 4 Matrix B: 5 6 7 8	Resultant Matrix: 6 8 10 12

Exercise 14: Grading System - Average Marks Calculation

Task: Write a program to calculate the average marks of 4 students in 3 subjects.

Sample Input	Sample Output
Marks of student 1: 70 80 90	Average marks for student 1: 80.00
Marks of student 2: 60 75 85	Average marks for student 2: 73.33
Marks of student 3: 95 80 70	Average marks for student 3: 81.67
Marks of student 4: 50 65 75	Average marks for student 4: 63.33