

Problem Set on Array

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 4 12 7 19	Your elements: 4 12 7 19..... a[0]=4 a[1]=12 a[2]=7 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 10 15 20 25 30 35	Inputted values: 5 10 15 20 25 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 10 15 20 25 30 35	Inputted values: 35 30 25 20 15 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
Enter array size: 3 4 5 6	Your values: 4 5 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
Array size = 10 55 23 20 13	Maximum: 55

10. Write a C program to find the minimum value in an array.

Input	output
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Array size = 10 45 23 20 13	Minimum: 13
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11. Write a program in C to find the maximum and minimum element in an array.

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

12. Write a C program that would find the difference between the minimum and the maximum number in an array

Sample Input	Sample Output
Enter Array Elements: 90 120 22 11	Difference = 109

13. Write a program in C to find the second largest element in an array

Sample Input	Sample Output
Enter Array Elements: 90 60 22 11	Second Max: 60

14. Write a C program that would search for a particular number in an array.

Sample Input	Sample Output
Enter Array Elements: 30 33 12 Enter the number: 12	Found at index 2

15. Write a program in C to separate odd and even integers in separate arrays.

Input	output
Input array size: 5 Input elements in the array : element - 1 : 25 element - 2 : 47 element - 3 : 42 element - 4 : 56 element - 5 : 32	The Even elements are : 42 56 32 The Odd elements are : 25 47

16. Write a C program that would only print the sum of all the even numbers in an array.

Sample Input	Sample Output
Enter Array Elements: 30 33 12 10	Sum of Even Numbers = 52

17. Write a C program that would count the even numbers in an array.

Sample Input	Sample Output
Enter Array Elements: 30 33 13	No. Even Numbers: 1

11	
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18. Write a program in C to count a total number of duplicate elements in an array.

Sample Input	Sample Output
Enter Array Elements: 90 22 22 11 23 21 22	Duplicate 22

19. Write a program in C to print all unique elements in an array

Sample Input	Sample Output
Enter Array Elements: 30 22 31 23 23	Unique Elements: 30 22 31