1D-Array Programming Questions

* **C Examples on Mathematical Operations on an Array**

1. C Program to Calculate Sum & Average of an Array
2. C Program to Calculate the Sum of the Array Elements using Pointer
3. C Program to Calculate Sum of all Elements of an Array using Pointers as Arguments
4. C Program to Compute the Sum of two One-Dimensional Arrays using Malloc
5. C Program to Find the Sum of Contiguous Subarray within a 1 – D Array of Numbers which has the Largest Sum

* **C Examples on Finding the Largest and Smallest Numbers in an Array**

1. [C Program to Find the Largest Two Numbers in a given Array](https://www.sanfoundry.com/c-program-largest-two-numbers-given-array/)
2. [C Program to Find the Second Largest & Smallest Elements in an Array](https://www.sanfoundry.com/c-program-second-largest-smallest-array-average/)
3. [C Program to Find the Largest Number in an Array](https://www.sanfoundry.com/c-program-find-largest-number-array/)

* **C Examples on Inserting and Deleting Elements to and from an Array**

1. C Program to Put Even & Odd Elements of an Array in 2 Separate Arrays
2. C Program to Insert an Element in a Specified Position in a given Array
3. C Program to Delete the Specified Integer from an Array
4. C Program to Cyclically Permute the Elements of an Array

* **C Examples on Sort and Merge Operations on an Array**

1. C Program to Sort the Array in an Ascending Order
2. C Program to Sort the Array in Descending Order
3. C Program to Sort Names in an Alphabetical Order
4. C Program to Merge and Sort Elements of 2 different Arrays
5. C Program to Merge the Elements of 2 Sorted Array
6. C Program to Sort N Numbers in Ascending Order using Bubble Sort
7. C Program to Split an Array from Specified Position & Add First Part to the End
8. C Program to Accept an Array & Swap Elements using Pointers

* **C Examples on Search Operation on an Array**

1. C Program to Read an Array and Search for an Element
2. C Program to accept Sorted Array and do Search using Binary Search
3. C Program to find the Biggest Number in an Array of Numbers using Recursion

* **C Examples on Queue and Stack Implementation of an Array**

1. C Program to Implement a Queue using an Array
2. C Program to Implement two Stacks using a Single Array & Check for Overflow & Underflow

* **C Examples on Printing the Elements of an Array**

1. [C Program to Generate Pascal Triangle 1 D Array](https://www.sanfoundry.com/c-program-generate-pascal-triangle/)
2. [C Program to Print the Number of Odd & Even Numbers in an Array](https://www.sanfoundry.com/c-program-odd-even-number-array/)
3. [C Program to Print All the Repeated Numbers with Frequency in an Array](https://www.sanfoundry.com/c-program-repeated-numbers-frequency-array/)
4. [C Program to Print the kth Element in the Array](https://www.sanfoundry.com/c-program-repeated-numbers-frequency-array/)

* **C Examples on Operations on Individual Elements of an Array**

1. C Program to Find the Number of Elements in an Array
2. C Program to Check Array bounds while Inputing Elements into the Array
3. C Program to Print the Alternate Elements in an Array
4. C Program to Find the Odd Element given an Array with only two Different Element
5. C Program to Increment Every Element of the Array by One & Print Incremented Array
6. C Program to Find the Number of Non Repeated Elements in an Array
7. C Program to identify missing Numbers in a given Array
8. C Program to Segregate 0s on Left Side & 1s on right side of the Array
9. C Program to Find 2 Elements in the Array such that Difference between them is Largest

* **C Examples on Mathematical Functions and their Applications on Arrays**

1. C Program to Input a String & Store their Ascii Values in an Integer Array & Print the Array
2. C Program to Input an Array, Store the Squares of these Elements in an Array & Print it
3. C Program to Find the two Elements such that their Sum is Closest to Zero
4. C Program to Find if a given Integer X appears more than N/2 times in a Sorted Array of N Integers
5. C Program to Find the Median of the Elements after Merging these 2 Sorted Arrays with Same Size
6. C Program to Find Union & Intersection of 2 Arrays
7. C Program to Find Ceiling & Floor of X given a Sorted Array & a value X
8. C Program to Find the Summation of Node values at Row or Level

**List of One Dimensional Array Programs / Examples in C**

1. C program to read and print One Dimensional Array of integer elements.
2. C program to calculate Sum, Product of all elements.
3. C program to find Smallest and Largest elements from One Dimensional Array Elements.
4. C program to replace all EVEN elements by 0 and Odd by 1 in One Dimensional Array.
5. C program to merge Two One Dimensional Arrays elements.
6. C program to Add and Subtract of Two One Dimensional Array elements.
7. C program to find a number from array elements.
8. C program to sort array elements in ascending order.
9. C program to reverse array element.
10. C program to swap adjacent elements of a one dimensional array
11. C program to find occurrence of an element in one dimensional array.
12. C program to sort an one dimensional array in ascending order.
13. C program to sort an one dimensional array in descending order.
14. C program to delete given element from one dimensional array.
15. C program to find the first repeated element in an array.
16. C program to create array with reverse elements of one dimensional array.
17. In this C program, we are going to learn how to create an array with reverse elements of given array? Here, we have an array with some integer elements and we have to create another array by assigning elements of first array in reverse order.
18. C program to check prime numbers in an array.
19. In this C program, we are going to learn to check prime numbers in an array. We will declare an array with some prime and non prime numbers, and then print the elements with “prime” and “Not prime” message.
20. C program to delete prime numbers from an array.
21. In this C program, we are going to learn how can we check and delete prime numbers from an array? We are declaring an array with some prime and non prime numbers and deleting prime numbers and then printing array elements with the numbers which are not prime.