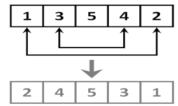
- 1) Write a C program to input 10 numbers through the keyboard into an array and display the results of addition of even numbers and product of odd numbers.
- 2) Write a C program to input 10 numbers through the keyboard into an array and find the biggest and smallest number in an Unsorted array without using any Sorting Technique.
- 3) Write a C program to input 10 numbers through the keyboard and find the number of prime numbers count, store them into a seperate array and display it.
- 4) Write a C program to findout second largest and second smallest elements of an unsorted array without using any Sorting Technique.
- 5) Write a C program to reverse the elements of a given array.



6) Write a C program to delete an element at desired position from an array.

1	14
2	50
3	73
4	9
5	24
6	3
7	92
8	-3

Orig	inal	Array
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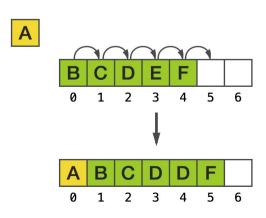
1	14
2	50
3	73
4	9
5	
6	3
7	92
8	-3

5th Element deleted – leaving an empty location

1	14
2	50
3	73
4	9
5	3
6	92
7	-3
8	

Array after Deletion

7) Write a C program to insert an element at desired position in an array.



For Example if 'A' is to be stored at '0' position then,

8) Write a C program which deletes the duplicate elements of an array.

9)

Write a C program to find the duplicate elements of a given array and find the count of duplicated elements.

Ex: if int a[] =
$$\{0,3,1,0,5,1,2,0,4,5\}$$

output:-

The duplicate elements are existed in an array

0 -- 3 times

1 -- 2 times

5 -- 2 times

10) Write a program to print the non repeted numbers of a given array.

Ex: if int a[] =
$$\{0,3,1,0,5,1,2,0,4,5\}$$

Output: 3, 2, 4

11) Write a program to copy the elements of one array into another array without duplicate items as a first slot, and store duplicate elements as a second slot.

Take two different arrays for first and second slots.

12) Write a C program to evaluate the following series. The series contains sum of square of numbers from 1 to 'n'. Strore result of each term in an array. Calculate value of 'S' using array.

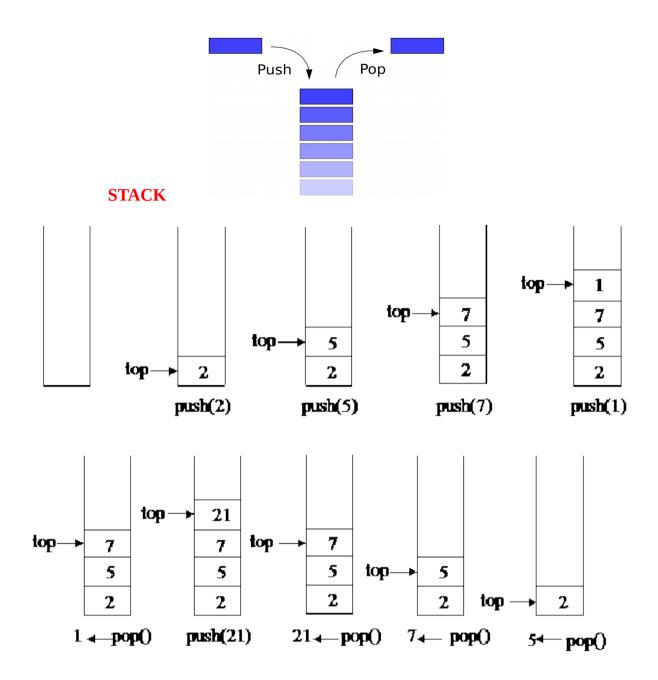
$$S = 1^2 + 2^2 + 3^2 + 4^2 + \dots n^2$$

= [1, 4, 9, 16, \dots n^2]

Suppose n = 4,

then
$$S = 1^2+2^2+3^2+4^2$$
;
 $S = 1+4+9+16$;
 $S = 30$.

13) Write a C program to implement the stack using arrays.



------ END ------