

Exercises

01) Write a program to read and display n numbers using an array.

- a. Modify the program to find the average of the n numbers.
- b. Modify the program to print the position of the smallest number on n numbers.

02) Write a program to merge two arrays.

03) Write a program to perform the following:

Both array A and B are character arrays of size 4. The third array AB is having the size 8 and of type char. You should combine elements in both the arrays A and B as shown in the below figure and store them in array AB. Finally display the output of array AB.

Stack

1. Write a C code to implement a stack using Arrays and implements the following functionalities.

- push() - This Function used to insert an element into a stack.
- pop() - This Function used to delete an element from a stack
- isEmpty() - This Function used to find the stack is empty or not.
- isFull() - This Function used to find the stack is full or not.
- getSize() -This Function used to get the size of the stack.
- outPut() - This Function used to print the element of the stack

2. Write a C Program to reverse a String And find the given string palindrome or not ?

Example :

Input a string : MADAM

Reverse string : MADAM

Output : This string is palindrome.

Input a string : MOTHER

Reverse string : REHTOM

Output : This string is not a palindrome.

3. Write a C program to reverse a stack using recursion.
4. Write a C program to convert Decimal to Binary using a Stack