//question 1

// In this problem you have to take an array of size 10 and write the following functions:

//a. Add() function that add the elements in the array.

//b. Display() function that displays the elements in the array.

//c. Reverse() function that reverse the overall array

//d. Search() function that searches the values in the array and also try to find duplications in values.

#include<iostream>

#include<algorithm>

#include<iomanip> //setw(n)

using namespace std;

void display(int barr[10]) //called function below receive array

{

cout<<"Received array from below"<<endl;

for(int j=0;j<10;j++)

{ cout<<setw(8);

cout<<barr[j];

}

}

/////////////////////////////////////////////////

void add(int barr[10]) //called function below receive array

{

int arr2[10];

cout<<"Enter the elements in 2nd array\n";

for(int i=0;i<10;i++)

{

cin>>arr2[i];

}

cout<<"Result is after adding two arrarys\n";

cout<<arr2[0]+barr[0]<<endl;

cout<<arr2[1]+barr[1]<<endl;

cout<<arr2[2]+barr[2]<<endl;

cout<<arr2[3]+barr[3]<<endl;

cout<<arr2[4]+barr[4]<<endl;

cout<<arr2[5]+barr[5]<<endl;

cout<<arr2[6]+barr[6]<<endl;

cout<<arr2[7]+barr[7]<<endl;

cout<<arr2[8]+barr[8]<<endl;

cout<<arr2[9]+barr[9]<<endl;

}

/////////////////////////////////////////

void reverse(int barr[10])//called function below receive array

{

cout<<"Reverse values\n "<<endl;

for(int i=10;i>=0;i--)

{

cout<<barr[i]<<endl;

}

}

/////////////////////////////////////////////

void search(int barr[10])

{

int n,m;

cout<<"Enter the no u want to search\n"<<endl;

cin>>m;

n=count(barr,barr+10,m);

cout<<"NO reapeats "<<n<<"times\n"<<endl;

}

/////////////////////////////////////////////

void main()

{

int arr[10]; //arrary of 10( index 0-9)

cout<<"Enter the element in first arry\n"<<endl;

for(int i=0;i<10;i++) //for loop

{

cin>>arr[i];

}

////////////////////////////////////////////

add(arr); //calling function

reverse(arr);

display(arr);

search(arr);

system("pause");

}