Que No 1 Write a c program to find the sum of all elements of an array

#include<stdio.h>

void main()

{

int arr[100],i,n,sum=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &arr[i]);

}

for (i = 0; i < n; i++)

{

sum = sum + arr[i];

}

printf("Addition=%d", sum);

}\*/

/\* Que No 2 Write a c program to count the number of elements less than,greater than and equal to zero

#include<stdio.h>

void main()

{

int arr[100], i, n,positive=0,negative=0,zero=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &arr[i]);

}

for (i = 0; i < n; i++)

{

if (arr[i] >0)

{

positive++;

}

else if(arr[i]<0)

{

negative++;

}

else if(arr[i]==0)

{

zero++;

}

}

printf("Positive number:%d\n",positive);

printf("Negative number:%d\n", negative);

printf("Zero number:%d\n", zero);

}

Que no 3 write c program that return the position of palindrom element in array

#include<stdio.h>

void main()

{

int a[20], n, i, rev = 0, temp, rem;

printf("enter size of array");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array elements");

scanf\_s("%d", &a[i]);

}

printf("elements in array are :\n");

for (i = 0; i < n; i++)

{

printf("%d ", a[i]);

}

for (i = 0; i < n; i++)

{

temp = a[i];

rev = 0;

while (temp != 0)

{

rem = temp % 10;

rev = rev \* 10 + rem;

temp = temp / 10;

}

if (a[i] == rev)

{

printf("\n%d is pallindrome element position at %d index", a[i], i);

}

}

}

Que no 4 Write a c program to sort first half of array in ascending order and second half descending order

#include<stdio.h>

void main()

{

int a[100];

int i, n,j,temp=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n/2; i++)

{

for (j =i+1; j < n; j++)

{

if (a[i]>a[j])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

for (i = n / 2; i < n -1; i++)

{

for (j = i+1; j < n; j++)

{

if (a[i] < a[j])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

for (i = 0; i < n; i++)

{

printf("%d\n", a[i]);

}

}

Que no 5 Write a c proram to cophy the elements of one array into another array

#include<stdio.h>

void main()

{

int a[100];

int b[100],i,n;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

b[i] = a[i];

for (i = 0; i < n; i++)

{

printf("first array=%d\n", a[i]);

}

for (i = 0; i < n; i++)

{

printf("Second array=%d\n", a[i]);

}

}

Que no 6 Write a c program to sort only evan number in array

#include<stdio.h>

void main()

{

int arr[100], i, n, j, temp;

printf("enter how many numbers you want to insert\n");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

scanf\_s("%d", &arr[i]);

}

printf("before sorting elements are :");

for (i = 0; i < n; i++)

{

printf("%d ", arr[i]);

}

for (i = 0; i < n; i++)

{

for (j = i + 1; j < n; j++)

{

if (arr[i] % 2 == 0 && arr[j] % 2 == 0 && arr[i] > arr[j])

{

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

}

printf("\nonly even numbers arranged in ascending order in array:\n");

for(i = 0; i < n; i++)

{

printf("%d\n", arr[i]);

}

}

Que no 7 Write a c program to seprate odd and evan integer in same array

#include<stdio.h>

void main()

{

int a[100];

int i, j, n, temp = 0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n-1; i++)

{

for (j = i + 1; j < n; j++)

{

if (a[i]%2!=0)

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

for (i = 0; i < n; i++)

{

printf("Sorted array:%d\n", a[i]);

}

}

Que no 8 Write a c program to count the frequency of each elements of an array

#include<stdio.h>

void main()

{

int a[100];

int i, j, n,count;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n ; i++)

{

count = 0;

for (j = 0; j < n; j++)

{

if (a[i] == a[j])

{

count++;

}

}

printf("\nfreqency:%d = %d",a[i], count);

}

}

Que no 9 Write a c program to print all unique elements in array

#include<stdio.h>

void main()

{

int a[100];

int i, j, n;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i++)

{

if (a[0] != a[i])

{

printf("Unique no in array:%d\n",a[i]);

}

}

}

Que no 10 Write a c program to to insert new value in the array (sorted list)

#include<stdio.h>

void main()

{

int a[20], i, j, n, temp, num;

printf("enter a value of n\n");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array elements");

scanf\_s("%d", &a[i]);

}

printf("\nenter element you want to insert : ");

scanf\_s("%d", &num);

for (i = 0; i < n; i++)

{

for (j = i + 1; j < n; j++)

{

if (a[i] > a[j])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

for(i = 0 ; i < n ; i++)

{

if (num < a[i])

{

temp = i; break;

}

}

for(i = n ; i >= temp ; i--)

{

a[i] = a[i-1];

if(i == temp)

{

a[i] = num;

}

}

for (i = 0; i <= n; i++)

{

printf("%d ", a[i]);

}

}

Que no 11 Write a c program delete an elementat desier position an array

#include<stdio.h>

void main()

{

int a[20], i, n, num;

printf("enter a value of n:\n");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter arrray elements");

scanf\_s("%d", &a[i]);

}

printf("Enter a delete position : ");

scanf\_s("%d", &num);

for (i = num - 1; i < n - 1; i++)

{

a[i] = a[i + 1];

}

for (i = 0; i < n - 1; i++)

{

printf("%d", a[i]);

}

}

Que no 12 Write a c program to find the maximum and minimum in array

#include<stdio.h>

void main()

{

int a[100];

int i, n, max = 0, min = 0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i++)

{

if (a[0] < a[i])

{

a[0] = a[i];

}

}

printf("Maximum=%d\n", a[0]);

for (i = 0; i < n; i++)

{

if (a[0] > a[i])

{

a[0] = a[i];

}

}

printf("Minimum=%d\n", a[0]);

}

Que no 13 Write a c program to to find the second largest element in array

#include<stdio.h>

void main()

{

int a[100];

int i, n,max=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i++)

{

if (a[0] < a[i])

{

max = a[i];

}

for (i = 0; i < n; i++)

{

if (max == a[i])

{

i++;

}

else if(a[0]<a[i])

{

max = a[i];

}

}

printf("Second largest element is:%d\n", max);

}

}

Que no 14 write a c progran to find the number of elements in an array

#include<stdio.h>

void main()

{

int a[100];

int i, n, count = 0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i++)

{

count++;

}

printf("Number of elements in array=%d", count);

}

Que.15: Check array bounds while inputing elements in an array

#include<stdio.h>

void main()

{

int a[5],i=0,cnt=0 ;

printf("count = %d", cnt);

printf("\nenter elements in array are :\n");

while (1)

{

if (i == cnt)

{

printf("array bound !!");

break;

}

scanf\_s("%d", &a[i]);

i++;

}

}

Que no 16 write a c program to print the Alternate elements in an array

#include<stdio.h>

void main()

{

int a[100];

int i, n;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i+=2)

{

printf("%d\n", a[i]);

}

}

Que.17: Print 2 elements in array such that difference between them is largest

#include<stdio.h>

void main()

{

int a[20],i,n,min,max;

printf("enter how many numbers you want to insert\n");

scanf\_s("%d", &n);

printf("enter %d elements", n);

for(i = 0; i < n; i++)

{

scanf\_s("%d", &a[i]);

}

min = a[0];

for(i = 0; i < n; i++)

{

if(a[i] < min)

{

min = a[i];

}

}

max = a[0];

for(i = 0; i < n; i++)

{

if(a[i] > max)

{

max = a[i];

}

}

printf("\ntwo values largest difference is %d and values are %d & %d", max -min, max, min);

}

Que no 18 Write a c proram to input a sting & store their ascii value in int array

#include<stdio.h>

void main()

{

char a[100];

printf("enter a string:\n");

scanf\_s("%s",&a);

printf(" your string %s\n", a);

for (int i = 0; a[i] != '\0'; i++)

{

printf("Ascii values %d", a[i]);

}

}

Que no 19 write a c program to store squre of the elements in the same array

#include<stdio.h>

void main()

{

int a[100], b[100];

int i, n, ans= 0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i++)

{

ans = a[i] \* a[i];

a[i] = ans;

}

for (i = 0; i < n; i++)

{

printf("Squre=%d\n", a[i]);

}

}

Que 20 write a c program to find the two elements such that their sum is closest to give number

#include<stdio.h>

void main()

{

int a[100];

int i, n,j,sum=0,num=0,diff1 = 0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

printf("Enter num value:");

scanf\_s("%d",&num);

int a1, b1, olddiff = 0;

for (i = 0; i < n-1; i++)

{

for (j =i+1; j < n; j++)

{

sum = a[i] + a[j];

if (num > sum)

{

diff1 = num - sum;

}

else

{

diff1 = sum - num;

}

//olddiff = diff1;

if (olddiff > diff1)

{

olddiff = diff1;

a1 = a[i];

b1 = a[j];

}

}

}

printf("%d\n = ", a1);

printf("%d\n = ", b1);

printf("%d\n = ", olddiff);

}

Que.21: Find given int X appears more than n / 2 times in sorted array of n int

#include<stdio.h>

void main()

{

int a[20], i, n, x, count = 0;

printf("enter how many numbers you want to insert : ");

scanf\_s("%d", &n);

printf("enter %d elements : ", n);

for (i = 0; i < n; i++)

{

scanf\_s("%d", &a[i]);

}

printf("\nenter a number you want to find more than %d times\n", n / 2);

scanf\_s("%d", &x);

for (i = 0; i < n; i++)

{

if (a[i] != x)

count++;

}

if (count == 0)

printf("%d is not in given array", x);

else

{

count = 0;

for(i = 0; i < n; i++)

{

if (a[i] == x)

count++;

}

if (count > n / 2)

{

printf("\n%d is appears more than %d i.e %d times", x, n / 2, count);

}

else {

printf("\n%d is appears less than or equal to %d times", x, n / 2);

}

}

}

/Que 22 Write a c program to find the unioun & intersection of two arrays/

#include<stdio.h>

void main()

{

int a[100], b[100],c[100];

int i,j,n1,n2;

printf("Enter a size of first array:");

scanf\_s("%d", &n1);

for (i = 0; i < n1; i++)

{

printf("Enter a first array element:");

scanf\_s("%d", &a[i]);

}

printf("Enter a size of second array:");

scanf\_s("%d", &n2);

for (i = 0; i < n2; i++)

{

printf("Enter a second array element:");

scanf\_s("%d", &b[i]);

}

for (i = 0; i < n1; i++)

{

printf("First array %d\n", a[i]);

}

for (i = 0; i < n2; i++)

{

printf("second array %d\n", b[i]);

}

for (i = 0; i < n1; i++)

{

c[i] = a[i];

}

for (i = 0; i < n2; i++)

{

c[j] = b[i];

}

for (i = 0; i < n1+n2; i++)

{

printf("thired array %d\n", c[i]);

}

}

Que no 23 Write a C program to find the sum of contiguous subarray within a one dimensional array of numbers

which has the largest sum

#include<stdio.h>

void main()

{

int a[100], b[100], c[100];

int i,j,

n, sum = 0,max=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i += 2)

{

for (j = i + 1; j < n; j += 2)

{

sum = a[i] + a[j];

}

if (max < sum)

{

max = sum;

}

}

printf("%d =", max);

}

Que no 24 write a c program to find the maximum sum of a subsequent numbers in given array

#include<stdio.h>

void main()

{

int a[100], b[100], c[100];

int i,j,

n, sum = 0,max=0;

printf("Enter a size of array:");

scanf\_s("%d", &n);

for (i = 0; i < n; i++)

{

printf("Enter a array element:");

scanf\_s("%d", &a[i]);

}

for (i = 0; i < n; i += 2)

{

for (j = i + 1; j < n; j += 2)

{

sum = a[i] + a[j];

}

if (max < sum)

{

max = sum;

}

}

printf("%d =", max);

}