1. WAP to input an array of N number of elements and count total number of positives, negatives and zero elements in that array and display those counts.

#include<stdio.h>

int main()

{

int arr[10],i,n,positive=0,negative=0,zero=0;

printf("enter the number of elemets");

scanf("%d",&n);

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

{

printf("enter the value for arr[%d]\n",i);

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

}

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

{

if(arr[i]>0)

positive++;

else if(arr[i]<0)

negative++;

else

zero++;

}

printf("the total number of positive element are %d and negative are %d and oth Element are %d",positive,negative,zero);

return 0;

}

WAP to input an array of N number of elements and store all even numbers in 1 array and all odd numbers in another array. Print botedh the even and odd array separately.

#include<stdio.h>

int main()

{

int arr[10],i,n,even=0,odd=0;

printf("enter the number of elemets");

scanf("%d",&n);

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

{

printf("enter the value for arr[%d]\n",i);

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

}

printf("even elements are:\n");

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

{

if(arr[i]%2==0)

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

}

printf("\n");

printf("odd elements are:\n");

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

{

if(arr[i]%2==1)

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

}

return 0;

}

Suppose there is president election in US and there are 2 candidates Trump and Biden. Input the votes of both the candidates in 10 states of US and calculate state-wise winner and overall winner.

#include<stdio.h>

int main()

{

int arr[20],i,j,n,sumo,sumt;

printf("enter the number of cities");

scanf("%d",&n);

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

{

printf("enter the value of vote of biden for city[%d]\n",i);

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

printf("enter the value of vote of trup for city[%d]\n",i);

scanf("%d",&arr[j]);

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

printf("trup is winer in city[%d]\n",i);

else

printf("biden is winner in city [%d]\n6",i);

}

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

{

sumo=sumo+arr[i];

sumt=sumt+arr[j];

if(sumo>sumt)

printf("biden is overall winner");

else

printf("trump is overall winner");

return 0;

}

}

WAP to input an array of N number of elements and find the smallest element in that array

#include<stdio.h>

int main()

{

int arr[10],i,n;

printf("enter the number of elements which you want to enter\n");

scanf("%d",&n);

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

{

printf("enter the array element arr[%d]",i);

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

}

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

{

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

arr[0]=arr[i];

}

printf("smallest element is %d",arr[0]);

}

1. WAP to input an array of N number of elements and find the largest element in that array.

#include<stdio.h>

int main()

{

int arr[10],i,n;

printf("enter the number of elements which you want to enter\n");

scanf("%d",&n);

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

{

printf("enter the array element arr[%d]",i);

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

}

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

{

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

arr[0]=arr[i];

}

printf("largest element is %d",arr[0]);

}

1. WAP to input an array of N number of distinct elements. Input an element you want to search and find it. If found then print the position of that element otherwise print not found.

#include<stdio.h>

int main()

{

int arr[10],i,n,a;

printf("enter the number of elements which you want to enter\n");

scanf("%d",&n);

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

{

printf("enter the array element arr[%d]",i);

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

}

printf("enter the elememt which u want to search\n");

scanf("%d",&a);

{

if(a=arr[i])

printf("element is found at position %d\n ",i+1);

else

printf("element does not found");

}

}.

1. WAP to input an array of N number of elements and sort it in ascending order using bubble sort.

#include<stdio.h>

int main()

{

int arr[20],i,j,temp,n,xchange;

printf("enter the number of elements:\n");

scanf("%d",&n);

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

{

printf("enter elements %d:",i+1);

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

}

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

{

xchange=0;

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

{

if(arr[j]>arr[j+1])

{

temp=arr[j];

arr[j]=arr[j+1];

arr[j+1]=temp;

xchange++;

}

}

if(xchange==0)

break;

}

printf("sorted list is :\n");

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

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

printf("\n");

return 0;

}

WAP to input an array of N number of elements and sort it in descending order using bubble sort

#include<stdio.h>

int main()

{

int arr[20],i,j,temp,n,xchange;

printf("enter the number of elements:\n");

scanf("%d",&n);

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

{

printf("enter elements %d:",i+1);

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

}

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

{

xchange=0;

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

{

if(arr[j]<arr[j+1])

{

temp=arr[j];

arr[j]=arr[j+1];

arr[j+1]=temp;

xchange++;

}

}

if(xchange==0)

break;

}

printf("sorted list is :\n");

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

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

printf("\n");

return 0;

}