

main.cpp - Dev-C++ 5.11

File Edit Tools AStyle Window Help



TDM-GCC 4.9.2 64-bit Release

main.cpp

```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<limits.h>
4
5 void reversearry(int arr[],int start,int end)
6 {
7     int temp;
8     while(start<end)
9     {
10         temp= arr[start];
11         arr[start]=arr[end];
12         arr[end]=temp;
13         start++;
14         end--;
15     }
16 }
17
```

```
int remove_duplicate_elements(int arr[], int n)
{
    if(n==0 || n==1)
        return n;
    int temp[n];
    int j=0;
    int i;

    for(i=0; i<n-1; i++)
        if(arr[i] != arr[i+1])
            temp[j++] = arr[i];
    temp[j++] = arr[n-1];

    for(i=0; i<j; i++)
        arr[i] = temp[i];

    return j;
}
```

```
7 void second_max(int arr[],int n)
8 {
9     int i,max1,max2;
10    max1=max2=INT_MIN;
11    for(i=0;i<n;i++)
12    {
13        if(arr[i]>max1)
14        {
15            max2=max1;
16            max1= arr[i];
17        }
18        else if(arr[i]>max2 && arr[i]<max1)
19        {
20            max2=arr[i];
21        }
22    }
23    printf("first largest =%d\n",max1);
24    printf("second largest =%d\n",max2);
25 }
26 }
```

```
57 void sum_and_avg(int arr[],int n)
58 {
59     int i;
60     float sum=0;
61     float avg=0.0;
62     for(i=0;i<n;i++)
63     {
64         sum +=arr[i];
65     }
66     avg=sum/n;
67     printf(" sum of all the numbers= %.2f \n",sum);
68     printf(" average of all the numbers= %.2f \n",avg);
69 }
```

```
int disjoint_arrays(int arr[],int arr1[],int n,int m)
{
    int i,j;
    for(i=0;i<n;i++)
    {
        for(j=0;j<m;j++)
        {
            if(arr[i]==arr1[j])
                return -1;
        }
    }
    return 1;
}
```

```
83 int main()  
84 {  
85     int n,m;  
86     printf("enter the size of array : ");  
87     scanf("%d",&n);  
88     printf("enter the size of array1 : ");  
89     scanf("%d",&m);  
90     int arr[n];  
91     int arr1[m];  
92     printf("given array :- \n");
```

```

int arr1[m];
printf("given array :- \n");
for(int i=0;i<n;i++)
{
    scanf("%d",&arr[i]);
}
printf("given array 2:- \n");
for(int i=0;i<m;i++)
{
    scanf("%d",&arr1[i]);
}
reversearray(arr,0,n-1);
printf("reverse array is :\n");
for(int i=0;i<n;i++)
{
    printf("%d \t",arr[i]);
}
printf("\n");

```

```

n=remove_duplicate_elements(arr, n);
printf("\n after removing duplicate element array is : \n");
for(int i=0;i<n;i++)
printf("%d \n",arr[i]);

second_max(arr,n);

sum_and_avg(arr,n);

int res= disjoint_arrays(arr,arr1,n,m);
if(res==-1)
printf("\n arrays are not disjoint\n");
else
printf("\n arrays are disjoint \n");

return 0;
}

```


C:\Users\Rutuja\Documents\Untitled1.exe

enter the size of array : 4

enter the size of array1 : 3

given array :-

10 20 30 40

given array 2:-

1 2 3

reverse array is :

40 30 20 10

after removing duplicate element array is :

40

30

20

10

first largest =40

second largest =30

sum of all the numbers= 100.00

average of all the numbers= 25.00

arrays are disjoint

Process exited after 38.02 seconds with return value 0

Press any key to continue . . . ■