







Code, Compile & Run

Ide × +


Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)   Code gets autosaved every second    

```
1 #include<stdio.h>
2 #define MAX_SIZE 100
3 int main()
4 {
5     int arr[MAX_SIZE],freq[MAX_SIZE];
6     int size, i,j, count;
7     printf("Enter the size of the array\n");
8     scanf("%d",&size);
9     printf("Enter the element in the array\n");
10    for(i=0;i<size;i++)
11    {
12        scanf("%d",&arr[i]);
13        freq[i]=-1;
14    }
15    for(i=0;i<size;i++)
16    {
17        count=1;
18        for(j=1+1;j<size;j++)
19        {
20            if(arr[i]== arr[j])
21            {
22                count++;
23                freq[j]=0;
24            }
25        }
26        if(freq[i]!=0)
27        {
28            freq[i]=count;
29        }
30    }
31    for(i=0;i<size;i++)
32    {
33        if(freq[i]!=0)
34            printf("%d ",arr[i]);
35    }
36    printf("\n");
37    return 0;
38 }
```

16:7 

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☒ Custom Input

Run

Custom Input

5
1 2 3 4 5

Status Successfully executed Date 2020-06-07 13:53:40 Time 0 sec Mem 9.424 kB ×

Input

5
1 2 3 4 5

Output

Enter the size of the array
Enter the element in the array
Distinct elemente in the array:
12345







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```
13 freq[i]=-1;
14 }
15 for(i=0;i<size;i++)
16 {
17     count=1;
18     for(j=i+1;j<size;j++)
19     {
20         if(arr[i]== arr[j])
21         {
22             count++;
23             freq[j]=0;
24         }
25     }
26     if(freq[i]!=0)
27     {
28         freq[i]=count;
29     }
30 }
31 printf("Distinct elemente in the array:\n");
32 for(i=0;i<size;i++)
33 {
34     if(freq[i]!=1)
35     {
36         printf("%d",arr[i]);
37     }
38 }
39 return 0;
40 }
```

16:7 

Open File

✓ Custom Input

Run

Custom Input

5
1 2 3 4 5

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Input

5
1 2 3 4 5

Output

Enter the size of the array
Enter the element in the array
Distinct elemente in the array:
12345

(i) Algorithm

step 1: start

step 2: input size, i, count

step 3: for (i=0; i<size; i++)

```
{
    freq[i] = -1;
}
```

step 4: for (i=0; i<size; i++)

```
{
    count = 1;
    for (j=1; j<size; j++)
    {
        if (arr[i] == arr[j])
        {
            count++;
            freq[j] = 0;
        }
    }
    if (freq[i] != 0)
    {
        freq[i] = count;
    }
}
```

step 5: output distinct elements in the array

step 6: for (i=0; i<size; i++)

```
{
    if (freq[i] == 1)
    {
        output
    }
}
```

(ii) Flowchart

