

# Code, Compile & Run

100



Rehabilitia IT

Distinct element

Select

C++14 (gcc 6.3)



Code gets auto-mated every second



```
1 #include <iostream>
2 int main()
3 {
4     int a[20], count = 0, i, j, n;
5     printf("Enter the size of the array:\n");
6     scanf("%d", &n);
7     printf("Enter\n");
8     for(i = 0; i < n; i++)
9     {
10         scanf("%d", &a[i]);
11         printf("Enter %d\n", a[i]);
12     }
13     for(i = 0; i < n; i++)
14     {
15         for(j = 0; j < i; j++)
16         {
17             if(a[i] == a[j])
18                 break;
19         }
20         if(i == j)
21             count++;
22     }
23     printf("In the count of distinct element in the array is %d", count);
24 }
```

251



Open File

Custom Input

Run

Custom Input

```
6
1 2 2 3 4 5
```

Status: Successfully executed Date: 2020-06-07 15:12:22 Time: 0 sec Mem: 15.232 kB



Input

```
6
1 2 2 3 4 5
```

Output

```
6
1 2 2 3 4 5
In the count of distinct element in the array is 3
```

Shreyas Hecalya

441915053

Write a C program to count distinct elements

= Algorithm

Step 1: Start

Step 2: Input  $n$

Step 3: Repeat for ( $i=0; i < n; i++$ )  
input  $a[i]$   
output  $a[i]$   
end [for]

Step 4:- Repeat for ( $i=0; i < n; i++$ )  
Repeat for ( $j=0; j \leq i; j++$ )  
if ( $a[i] == a[j]$ )  
break  
if ( $i == j$ )  
count = count + 1  
end for  
end for

Step 5:- output count

Step 6:- Stop

# Flowchart

