Code, Compile & Run

| Rakshitha R | Distinct element | Select |

C++14 (gcc 6.3) ▼   💾   🗑   Code gets autosaved every second   ❶ ⬇ ↗ ⚙

```c
1  #include<stdio.h>
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("%d\n",n);
8    for(i=0;i<n; i++)
9    {
10     scanf("%d",&a[i]);
11     printf("%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     {
22       count++;
23     }
24   }
25   printf("\n the count of distinct element in the array is %d",count);
26 }
27
```

25:1   ↻

| Open File | | ✓ Custom Input | Run |

Custom Input

```
4
1 2 2 8 4 8
```

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

Input

```
4
1 2 2 8 4 8
```

Output

```
4
1
2
2
8

 the count of distinct element in the array is 3
```

Program to find distinct element in array

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<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

flow chart

Start

input n

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

Input a[i]

for
$(j=0; j<n;$
$j++)$ → false

True

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

True

if
$a[i] ==$
$a[j]$ → false

True

if
$[i==j]$ — False

True

Count = count+1

output count

Stop