Arrays 1D - Count distinct elements

Harish and Rajesh were developing a plan to find the ideal woman for Sheldon Cooper. There were puzzles, translations, and questions to check a person's intelligence. One such question was to come up with a program to count the number of distinct elements in an array. Harini is a postdoctoral researcher and a former graduate student of Caltech who is a huge fan of Sheldon's work and she wanted to impress Sheldon by writing a program to count the number of distinct element in an array. Can you help Harini?

Input Format

Input consists of 1 integer and 1 array. The first integer corresponds to the size of the array.

Constraints

NA

Output Format

The output prints the number of distinct element in an array.

Sample Input 0

5

1

2

3

Sample Output 0

There are 4 distinct element in the array.

Explanation 0

Since there are 4 distinct elements it will print There are 4 distinct element in the array.

Sample Input 1

- 5
- 1
- 2
- 3
- 3

There are 3 distinct element in the array.

Explanation 1

Since there are 3 distinct element it will print There are 3 distinct element in the array.

f in Submissions: 664 Max Score: 100 Difficulty: Medium Rate This Challenge: ☆☆☆☆☆

C * 1 ▼#include <stdio.h> 2 #include <string.h> 3 #include <math.h> 4 | #include <stdlib.h> 5 6 vint main() { 7 8 /* Enter your code here. Read input from STDIN. Print output to STDOUT */ int n; 9 scanf("%d",&n); 10 int a[n]; 11 🔻 for(int i=0;i<n;i++){ 12 ▼ scanf("%d",&a[i]); 13 ₹ 14 int c=0; 15 for(int i=0;i<n;i++){</pre> 16 ▼ c+=1; 17 for(int j=i+1;j<n;j++){</pre> 18 ▼ 19 ▼ if(a[i]==a[j]){ c-=1; 20 21 break; } 22 } 23 24 printf("There are %d distinct element in the array.",c); 25 26 return 0; 27 } 28 Line: 1 Col: 1

<u> 1 Upload Code as File</u> ☐ Test against custom input

Run Code

Submit Code

Testcase 0 ✓ Testcase 1 ✓

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

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