Description | Hints | Submissions | Discussions | Notes

Destroy Coloured Gemstones

[illegible]	4 sec	256000KB	100
Difficulty	Time Limit	Memory	Score

80/80 XP | 30/30

Description

You are given an array of colored gemstones. In one second, you can remove exactly one continuous substring of colored gemstones that is a palindrome. You have to find the minimum number of seconds needed to destroy all the gemstones.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

Output Format

For each test case, print the minimum number of seconds needed to destroy all the gemstones.

Constraints

1≤ T ≤ 200

1≤ N ≤ 100

1≤ Ai ≤ N

Sample Input 1 Copy

```
3
4
1 3 3 1
3
```

C++14 | 00:00:00 | 12 px

```
#include<bits/stdc++.h>
using namespace std;
int n;
int arr[101];
int dp[101][101];
int rec(int l,int r){
    if(l+1==r && arr[l]==arr[r]){
        return 1;
    }
    else if(l+1==r){
        return 2;
    }
    if(l==r){
        return 1;
    }
    if(l>r){
        return 0;
    }

   if(dp[l][r]!=-1){
```

Sample Tests | Manual Tests

Test Case 1

Input

```
3
4
1 3 3 1
3
2 4 3
11
1 3 2 3 2 4 3 3 4 3 1
```

Output

Click on Run On Sample to view the output

Desired Output

Console | Run on Sample