2017/9/26 1390 -- Blocks



Online Judae Web Board Home Page F.A.Qs **Statistical Charts**



Problem Set Problems

Submit Problem **Online Status**

Prob.ID: Go **Authors**

Register Update your info **Authors ranklist**

Search

Online Contests

Current Contest Past Contests Scheduled Contests

Award Contest

User

lydliyudong Log Out

Mail:5(**0**) Login Log

Archive

Language: Default ▼

Blocks

Time Limit: 5000MS **Memory Limit:** 65536K

Accepted: 2402 **Total Submissions:** 5835

Description

Some of you may have played a game called 'Blocks'. There are n blocks in a row, each box has a color. Here is an example: Gold, Silver, Silve Bronze, Bronze, Gold.

The corresponding picture will be as shown below:

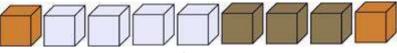


Figure 1

If some adjacent boxes are all of the same color, and both the box to its left(if it exists) and its right(if it exists) are of some other color, we call it a 'box segment'. There are 4 box segments. That is: gold, silver, bronze, gold. There are 1, 4, 3, 1 box(es) in the segments respectively.

Every time, you can click a box, then the whole segment containing that box DISAPPEARS. If that segment is composed of k boxes, you will get k*k points. for example, if you click on a silver box, the silver segment disappears, you got 4*4=16 points.

Now let's look at the picture below:

http://poj.org/problem?id=1390 1/3 2017/9/26 1390 -- Blocks

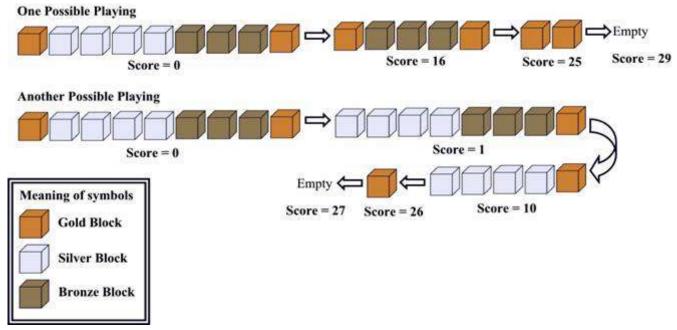


Figure 2

The first one is OPTIMAL.

Find the highest score you can get, given an initial state of this game.

Input

The first line contains the number of tests $t(1 \le t \le 15)$. Each case contains two lines. The first line contains an integer $t(1 \le t \le 15)$, the number of boxes. The second line contains $t(1 \le t \le 15)$. Each case contains two lines. The first line contains an integer $t(1 \le t \le 15)$, the number of boxes. The second line contains $t(1 \le t \le 15)$.

Output

For each test case, print the case number and the highest possible score.

Sample Input

http://poj.org/problem?id=1390

2017/9/26 1390 -- Blocks

```
2
1 2 2 2 2 3 3 3 1
1
```

Sample Output

Case 1: 29 Case 2: 1

Source

Liu Rujia@POJ

[Submit] [Go Back] [Status] [Discuss]







All Rights Reserved 2003-2013 Ying Fuchen, Xu Pengcheng, Xie Di Any problem, Please Contact Administrator

http://poj.org/problem?id=1390 3/3