Problem H
Zero Commander Tactical Analysis

Time limit: **3 seconds**
Memory limit: **1024 megabytes**

Problem Description

On a battlefield of length n, each position is occupied by either a soldier of Team 0 or a soldier of Team 1.

If k several consecutive soldiers of the same team stand together, they form a "battalion".

The "tactical power" of this battalion is determine by the total number of communication links that can be formed within it. A "communication link" can be formed between any two soldiers in the same battalion.

For example, if a battalion of Team 0 consists of 3 consecutive soldiers A, B and C. The total tactical power for this battalion is 3. Since the communication link can be formed between (A, B), (A, C) and (B, C).

For another example, if a battalion of Team 0 consists of 4 consecutive soldiers A, B, C and D, the total tactical power is 6.

However, since a single soldier battalion has 0 links, so its power is 0.

Both Team 0 and Team 1 can form battalions according to this rule. You are now the commander of Team 0, and you realize that you can write a program to quickly analyze the tactical power of both sides in order to judge the battlefield situation.

Finally, compare the total tactical powers of Team 0 and Team 1. If Team 0 has more tactical powers, output '`Advantages`'. If Team 1 has more tactical powers, output '`Disadvantages`'. If Team 0 and Team 1 have same tactical powers, output '`Balance`'.

Input Format

The first line contains an integer T, the number of test cases. For each test case, the first line contains an integer n, the number of soldiers. The second line contains n integers, each either `0` or `1`, repreenting the position is occupied by Team 0 or Team 1..

Output Format

For each test case, output '`X : Y <Result>`', where `X` is the tactical power of Team 0, `Y` is the tactical power of Team 1, `<Result>` is replaced as '`Advantages`, `Disadvantages` or `Balance`' according to the battlefield situation.

Technical Specification

- $1 \leq T \leq 100$
- $1 \leq n \leq 10^5$

Sample Input 1

```
3
6
0 0 0 1 0 0
4
1 1 0 0
5
0 1 1 1 0
```

Sample Output 1

```
4 : 0 Advantages
1 : 1 Balance
0 : 3 Disadvantages
```