Blood Bottle

locked

Problem Statement

Once two draculas named **Zaza** and **Kaza** went to a hospital to drink blood. There were some bottles of blood arranged in a shelf like a binary string (a binary string is a string such that each character in it is either 0 or 1). If the character is 1, that means there is blood in that bottle else not. **Zaza** will first start drinking, then Kaza and then again Zaza, and so on.

During eating, at a time they can choose any number of consecutive bottles with the same type, after drinking it will be removed from the list.

For example: If the binary string is 0110111, then the optimal way will be,

1. Zaza will drink- 0110 **111** and the string becomes 0110
2. Kaza will drink- 0 **11** 0 and the string becomes 00

After that, there is no bottle with blood to drink and they left the hospital. So, Zaza drank 3 bottles, and Kaza drank 2 bottles. Each of them wants to drink more bottles of blood. Can you calculate how many bottles of blood did Zaza drank?

Input Format

- First line will contain an integer **T**, the number of test cases.
- Each test case will contain a binary string **S**.

Constraints

1. T (1 <= **T** <= 1000)
2. S (1 <= **|S|** <= 100000), here |S| means the length of S.

Output Format

- For each test case, output a single line - number of bottles of milk Zaza drank.

Sample Input 0

```
5
0110111
0101010101
1010101000
0000
111111
```

Sample Output 0

```
3
3
2
```

```
0
6
```

Submissions: 134
Max Score: 20
Difficulty: Easy

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C++20

```cpp
#include <map>
#include <set>
#include <list>
#include <cmath>
#include <ctime>
#include <deque>
#include <queue>
#include <stack>
#include <string>
#include <bitset>
#include <cstdio>
#include <limits>
#include <vector>
#include <climits>
#include <cstring>
#include <cstdlib>
#include <fstream>
#include <numeric>
#include <sstream>
#include <iostream>
#include <algorithm>
#include <unordered_map>

using namespace std;
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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