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Blood Bottle

 locked

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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. $T (1 \leq T \leq 1000)$
2. $S (1 \leq |S| \leq 100000)$, 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[f](#) [t](#) [in](#)

Submissions: 134

Max Score: 20

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

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C++20



```
1 #include <map>
2 #include <set>
3 #include <list>
4 #include <cmath>
5 #include <ctime>
6 #include <deque>
7 #include <queue>
8 #include <stack>
9 #include <string>
10 #include <bitset>
11 #include <cstdio>
12 #include <limits>
13 #include <vector>
14 #include <climits>
15 #include <cstring>
16 #include <cstdlib>
17 #include <fstream>
18 #include <numeric>
19 #include <sstream>
20 #include <iostream>
21 #include <algorithm>
22 #include <unordered_map>
23
24 using namespace std;
25 int main() {
26     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
27     return 0;
28 }
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

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