

```
import java.util.*;
import java.lang.*;
import java.io.*;
class Day81
{
public static void main (String[] args) throws java.lang.Exception
{
Scanner scan = new Scanner(System.in);
int times = scan.nextInt();

while(times-- > 0){
int val = scan.nextInt();
scan.nextLine();

String s = scan.nextLine();
int count = 0;
for(int i = s.length(); i >= 2; i--){
    if(s.substring(i-2, i).equals("10"))
        count++;
} System.out.println(count);
}
}
}
```