

```
import java.util.Scanner;
class Main
{
    public static int flips(int N,String S)
    {
        int count=1;
        if(S.charAt(0)=='1')
        {
            count++;
        }
        for(int i=1;i<N;i++)
        {
            if(S.charAt(i)=='1' && S.charAt(i-1)=='1')
            {
                return 2;
            }
            if(S.charAt(i)=='1')
            {
                count++;
            }
        }
        if(count==1)
        {
            return 0;
        }
        else
        {
            return 1;
        }
    }
    public static void main (String[] args)
    {
        Scanner input=new Scanner(System.in);
        int test=input.nextInt();
        for(int i=0;i<test;i++)
        {
            int N=input.nextInt();
            String S=input.next();
            System.out.println(flips(N,S));
        }
    }
}
```