```java
import java.util.*;

import java.lang.*;

import java.io.*;

class Day79

{

public static void main (String[] args) throws java.lang.Exception

{

Scanner in=new Scanner(System.in);

int T=in.nextInt();

for(int i=0;i<T;i++)

{int count=0,t=0;

 int n=in.nextInt();

 String s=in.next();


 for(int j=0;j<s.length()-1;j++)

 {


 if(s.charAt(j)=='1')

 {

 count++;

 if(s.charAt(j)==s.charAt(j+1))

 t++;

 }

 }

 if(s.charAt(s.length()-1)=='1'&& count==0 )

 {

 System.out.println('1');

 continue;

 }

 if(count==0)

 {
```

```java
System.out.println('0');
}
else
{
if(t==0)
System.out.println('1');
else
System.out.println('2');
}
}
}
}
```