Day 79 coding Statement :

You are given a binary string S of length N. You can perform the following operation on S:

Pick any set of indices such that no two picked indices are adjacent.

Flip the values at the picked indices (i.e. change 0 to 1 and 1 to 0).

For example, consider the string S=1101101.

If we pick the indices {1,3,6}, then after flipping the values at picked indices, we will get 1?10?110?1→0111111.

Note that we cannot pick the set {2,3,5} since 2 and 3 are adjacent indices.

Find the minimum number of operations required to convert all the characters of S to 0.

Input Format

The first line contains a single integer T - the number of test cases. Then the test cases follow.

The first line of each test case contains an integer N - the length of the binary string S.

The second line of each test case contains a binary string S of length N.

Output Format

For each test case, output the minimum number of operations required to convert all the characters of S to 0.

Sample Input

3

6

101001

5

00000

3

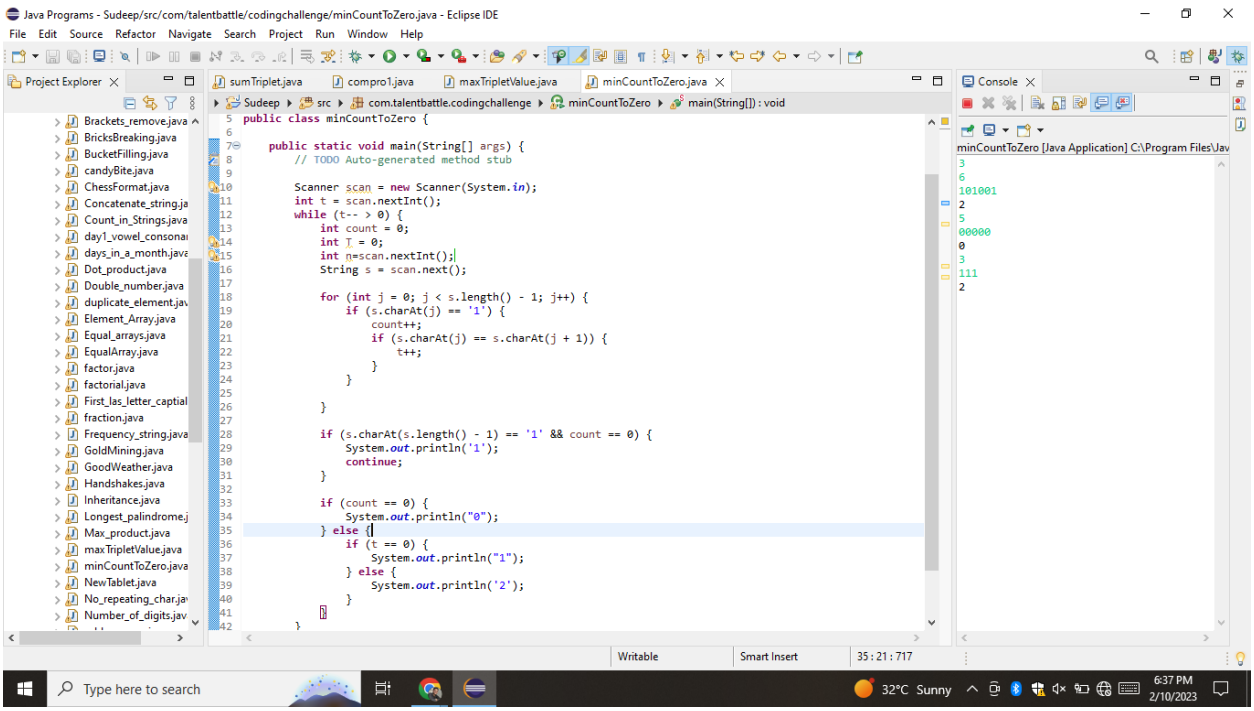
111

Sample Output

2

0

2


Java Programs - Sudeep/src/com/talentbattle/codingchallenge/minCountToZero.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
sumTriplet.java
compro1.java
maxTripletValue.java
minCountToZero.java
Sudeep ▸ src ▸ com.talentbattle.codingchallenge ▸ minCountToZero ▸ main(String[]) : void
Brackets_remove.java
BricksBreaking.java
BucketFilling.java
candyBite.java
ChessFormat.java
Concatenate_string.ja
Count_in_Strings.java
day1_vowel_consona
days_in_a_month.java
Dot_product.java
Double_number.java
duplicate_element.jav
Element_Array.java
Equal_arrays.java
EqualArray.java
factor.java
factorial.java
First_las_letter_captial
fraction.java
Frequency_string.java
GoldMining.java
GoodWeather.java
Handshakes.java
Inheritance.java
Longest_palindrome.j
Max_product.java
maxTripletValue.java
minCountToZero.java
NewTablet.java
No_repeating_char.ja
Number_of_digits.jav
5 public class minCountToZero {
6
7 public static void main(String[] args) {
8 // TODO Auto-generated method stub
9
10 Scanner scan = new Scanner(System.in);
11 int t = scan.nextInt();
12 while (t-- > 0) {
13 int count = 0;
14 int T = 0;
15 int n=scan.nextInt();
16 String s = scan.next();
17
18 for (int j = 0; j < s.length() - 1; j++) {
19 if (s.charAt(j) == '1') {
20 count++;
21 if (s.charAt(j) == s.charAt(j + 1)) {
22 t++;
23 }
24 }
25
26 }
27
28 if (s.charAt(s.length() - 1) == '1' && count == 0) {
29 System.out.println('1');
30 continue;
31 }
32
33 if (count == 0) {
34 System.out.println("0");
35 } else {
36 if (t == 0) {
37 System.out.println("1");
38 } else {
39 System.out.println('2');
40 }
41 }
42 }
Console
minCountToZero [Java Application] C:\Program Files\Jav
3
6
101001
2
5
00000
0
3
111
2
Writable
Smart Insert
35 : 21 : 717
Type here to search
32°C Sunny
6:37 PM
2/10/2023