

Day 82 coding Statement :

You are given N binary strings of length N each. You need to find a binary string of length N which is different from all of the given strings.

Note:

- A binary string is defined as a string consisting only of '0' and '1'.
- A string is considered different from another string when they have different lengths, or when they differ in at least one position.

Input Format

- The first line will contain T - the number of test cases. Then the test cases follow.
- The first line of each test case contains N - the number of strings and length of strings.
- Each of the next N lines contains a binary string of length N .

Output Format

For each test case, print on one line a binary string of length N , which is different from all of the given strings. If there are multiple possible answers, print any.

Sample Input

2

3

101

110

100

4

1100

1010

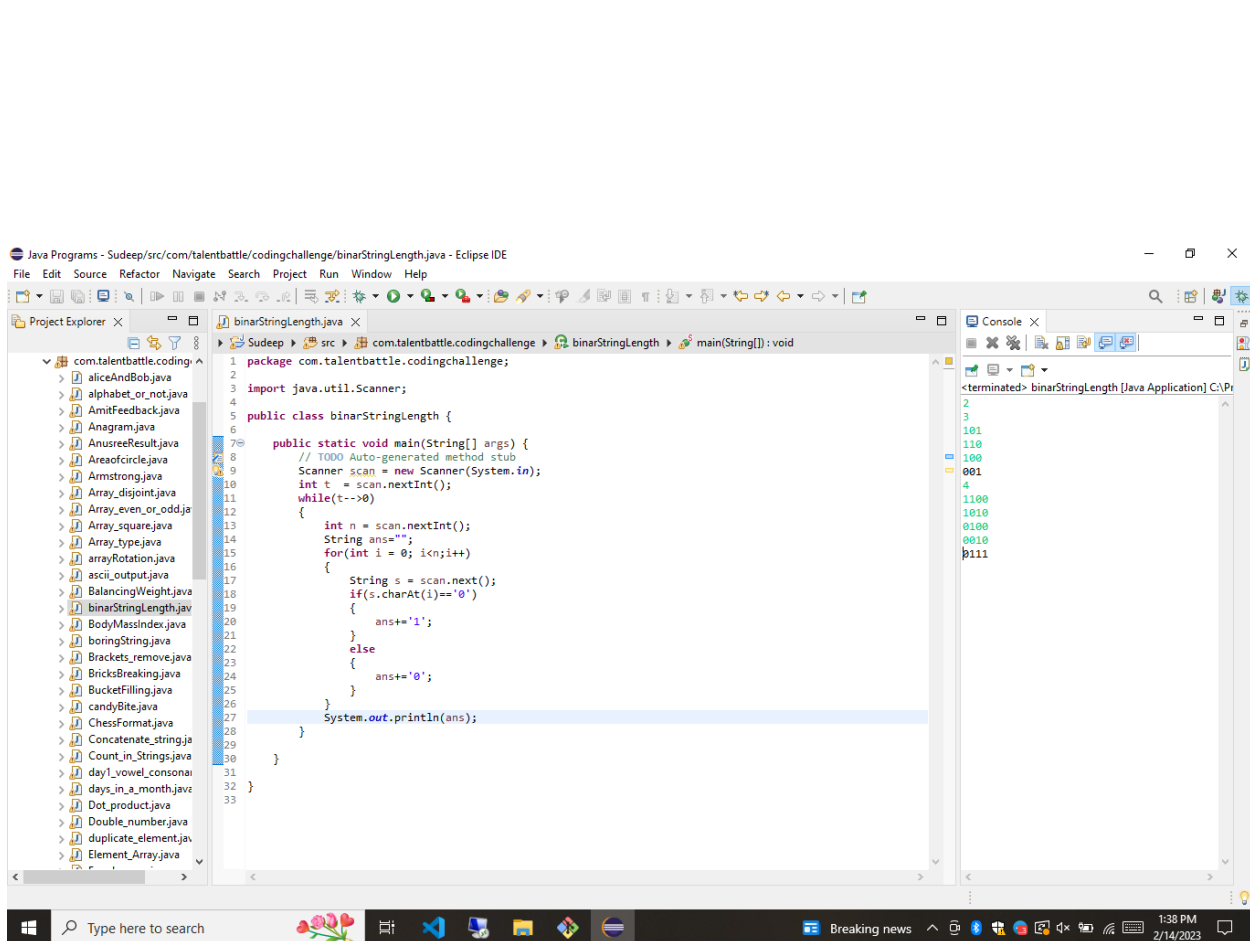
0100

0010

Sample Output

111

1101



The screenshot shows the Eclipse IDE interface. The Project Explorer on the left lists a project named 'com.talentbattle.codingchallenge' with various Java files. The main editor displays the file 'binarStringLength.java' with the following code:

```
1 package com.talentbattle.codingchallenge;
2
3 import java.util.Scanner;
4
5 public class binarStringLength {
6
7     // TODO: Auto-generated method stub
8     Scanner scan = new Scanner(System.in);
9     int t = scan.nextInt();
10    while(t-->0)
11    {
12        int n = scan.nextInt();
13        String ans="";
14        for(int i = 0; i<n;i++)
15        {
16            String s = scan.next();
17            if(s.charAt(i)=='0')
18            {
19                ans+="1";
20            }
21            else
22            {
23                ans+="0";
24            }
25        }
26        System.out.println(ans);
27    }
28 }
29
30
31
32
33
```

The Console window on the right shows the output of the program, which is a list of binary strings:

```
<terminated> binarStringLength [Java Application] C:\Pr
2
3
101
110
100
001
4
1100
1010
0100
0010
0111
```

The Windows taskbar at the bottom shows the system clock as 1:38 PM on 2/14/2023.