Tricky proposal again.

After the end of first semester for *first year students* in the institute. All the girls were in awe of the guy who scored *10 CPI*.

They all were smitten by him and wanted to date him. *The guy was a nerd and loves playing with numbers.* He gave a task to all the girls out there.

The task was-

All girls have to convert their name in an equivalent number coded form. Each letter will be map to following number shown below-

$A => 1, B => 2, C => 3 .... Z => 26$

And then multiply the obtained number with the last digit og it to get the final code

The girl who successfully does that will get a chance to date that guy. Help those girls to win over their love.

Input Format

- First line contains a single integer T, denoting the number of test cases.
- Second line contains a string S.

Constraints

- $1 \leq T \leq 100$
- $1 \leq S \leq 9$
- All characters are in **upper case**

Output Format

For each test case, print a the decoded string in the form of integer.

Sample Input 0

```
1
ANJALI
```

Sample Output 0

```
1026910161
```

Explanation 0

In the given input string is *ANJALI*, so 'A' is converted to to **1**, 'N' to **14** and so on. We get 114101129. The last digit of the number is = 9. So on multiplying the number with 9 we get $114101129 * 9$. Hence the output comes out to be **1026910161**.

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