Problem A: How many substrings

Description

Give you a string, you should print how many none empty substrings it has.

Input

The first line is number of tests. T (1 <= T <= 10)

The second line is a string S. The length of S doesn't exceed 1000, that is |S| <= 1000

S will only contain lower case English letters.

Output

For each test, you should print an integer in a single line, which is the number of none empty substrings of S.

Sample Input

```
1
hello
```

Sample Output

```
15
```

HINT

Easy problem.