HANGZHOU DIANZI UNIVERSITY — Online Judge

Online Judge	Online Exercise	Online Teaching	Online Contests	Exercise Author
F.A.Q	Problem Archive	C/C++/Java Exams	Best Coder beta	SHawnHardy
Hand In Hand	Realtime Judge Status	ACM Steps	VIP | STD Contests	Mail 0(0)
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Encoding

Time Limit: 2000/1000 MS (Java/Others)   Memory Limit: 65536/32768 K (Java/Others)
Total Submission(s): 39170   Accepted Submission(s): 17335

Problem Description

Given a string containing only 'A' - 'Z', we could encode it using the following method:

1. Each sub-string containing k same characters should be encoded to "kX" where "X" is the only character in this sub-string.

2. If the length of the sub-string is 1, '1' should be ignored.

Input

The first line contains an integer N (1 <= N <= 100) which indicates the number of test cases. The next N lines contain N strings. Each string consists of only 'A' - 'Z' and the length is less than 10000.

Output

For each test case, output the encoded string in a line.

Sample Input

```
2
ABC
ABBCCC
```

Sample Output

```
ABC
A2B3C
```

Author

ZHANG Zheng

Recommend

JGShining | We have carefully selected several similar problems for you: 1021 1062 1032 1018 1012

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Hangzhou Dianzi University Online Judge 3.0
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Designer & Developer : Wang Rongtao LinLe GaoJie GanLu
Total 0.000000(s) query 5, Server time : 2016-06-13 16:21:00, Gzip enabled

Administration