**Encoding**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 29072    Accepted Submission(s): 12864**

**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**

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**Recommend**

JGShining   |   We have carefully selected several similar problems for you:  [1161](http://acm.hdu.edu.cn/showproblem.php?pid=1161) [1088](http://acm.hdu.edu.cn/showproblem.php?pid=1088) [1106](http://acm.hdu.edu.cn/showproblem.php?pid=1106) [1328](http://acm.hdu.edu.cn/showproblem.php?pid=1328) [1200](http://acm.hdu.edu.cn/showproblem.php?pid=1200)

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