

<codeClash>2019

Code Clash Sample Problem #3 'Phone Number Frenzy'

Problem statement

In the US, phone numbers are typically 10 digits long. For example, a US phone number might be 4011223344. Americans typically divide the numbers into 3-3-4 format, i.e. 401-122-3344. In other countries, phone numbers can be different lengths and use different dividing formats. For example, UK phone numbers are typically 11 digits and follow a 5-6 dividing format, i.e. 40112-233444. Different formats lead to different ways to read these numbers:

401-1223-344 reads four zero one one double two three three double four.

40112-233444 reads four zero double one two two double three triple four.

Given a list of phone numbers and the dividing formats, find the proper way to pronounce the phone numbers in the format. Follow these pronunciation rules:

Single numbers are read separately.

2 successive numbers use double.

3 successive numbers use triple.

4 successive numbers use quadruple.

5 successive numbers use quintuple.

6 successive numbers use sextuple.

7 successive numbers use septuple.

8 successive numbers use octuple.

9 successive numbers use nonuple.

10 successive numbers use decuple.

More than 10 successive numbers are read separately.

The first line of input will contain the number of test cases to follow.

Each test case will be on its own line. The unformatted phone number will be provided first and will not exceed 16 digits. Separated by a space, the dividing format will be provided.

Sample test case

Sample input and output for this problem:

Input	Output
3 95012266444 3-4-4 95012266444 3-3-5 78889 2-3	nine five zero one double two six six triple four nine five zero one double two double six triple four seven eight double eight nine