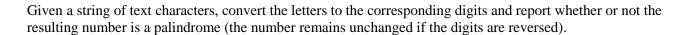
Problem E: Phone Number Palindromes

Source file: phone.(c|cpp|java)
Input file: phone.in

On a standard phone keypad, the following numeric keys correspond to the letters: 2: ABC, 3:DEF, 4:GHI, 5:JKL, 6:MNO, 7:PQRS, 8:TUV, 9:WXYZ.

The Problem



Input File (phone.in)

The first line of input contains a single integer less than 100 that represents the number of lines to follow. Each following line contains text, which is a string of at least 1 and at most 20 letters, which may be either uppercase or lowercase. The input file contains no spaces or non-alphabetic characters (other than the integer on line 1 and end-of-line characters).

Output

For each line of text, convert each letter to its corresponding numeric digit and report, "YES" or "NO", if the resulting number forms a palindrome.

Sample Input File

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Sample Output

	_			
	YES			
	YES			
	YES			
	NO			
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