

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

Given a string of text characters, convert the letters to the corresponding digits and report whether or not the resulting number is a palindrome (the number remains unchanged if the digits are reversed).

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

```
4
Anna
aToyota
sonor
Union
```

Sample Output

```
YES
YES
YES
NO
```