CCC '13 J2 - Rotating letters

Time limit: 2.0s   **Memory limit:** 256M

Canadian Computing Competition: 2013 Stage 1, Junior #2

An artist wants to construct a sign whose letters will rotate freely in the breeze. In order to do this, she must only use letters that are not changed by rotation of 180 degrees: I, O, S, H, Z, X, and N.

Write a program that reads a word and determines whether the word can be used on the sign.

Input Specification

The input will consist of one word, all in uppercase letters, with no spaces. The maximum length of the word will be 30 letters, and the word will have at least one letter in it.

Output Specification

Output YES if the input word can be used on the sign; otherwise, output NO .

Sample Input 1

```
SHINS
```

Output for Sample Input 1

```
YES
```

Sample Input 2

```
NOISE
```

Output for Sample Input 2

```
NO
```