Vasya has recently learned to type and log on to the Internet. He immediately entered a chat

room and decided to say hello to everybody. Vasya typed the word s. It is considered that

Vasya managed to say hello if several letters can be deleted from the typed word so that it

resulted in the word "hello". For example, if Vasya types the word "ahhell11loou", it will

be considered that he said hello, and if he types "hlelo", it will be considered that Vasya got

misunderstood and he didn't manage to say hello. Determine whether Vasya managed to say

hello by the given word s.

Input

The first and only line contains the word s, which Vasya typed. This word consisits of small

Latin letters, its length is no less that 1 and no more than 100 letters.

Output

If Vasya managed to say hello, print "YES", otherwise print "NO".