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## Crypting "helloworld"

Input file:            **standard input**  
Output file:         **standard output**  
Time limit:          1 second  
Memory limit:       256 megabytes

Hello World contest is finally here , Farouk want to trick some of the IEEE Computer Society ENIS Student Chapter members , so he decided to crypt the word "*helloworld*" by the following algorithm:

let's suppose  $pos_a = 0$  ,  $pos_b = 1$  , ....  $pos_z = 25$  , he choose a number  $a$  and for every character  $c$  in the word "*helloworld*" he replaces it by the charatcter which it's position  $= (a \cdot pos_c) \bmod(26)$  (where  $mod$  is the modulo operator that finds the remainder after division of one number by another).

He gave the crypted string to them and the number  $a$  , determine if they can decrypt the world to get "*helloworld*" or not (that means for every character in the given string they will be able to know the exact character that corosponds to it ).

### Input

The input contains one integer  $a$  ( $0 \leq a \leq 25$ ).

### Output

Print "*YES*" without quotes if they can decrypt the word to get "*helloworld*", otherwise print "*NO*" whithou quotes .

### Examples

standard input	standard output
1	YES
2	NO