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The Virtual Learning Environment for Computer Programming

## P0001. Upward numbers <br> P32149_en

We say that a natural number is upward if its digits fulfill the following property: on the right of a 0 can only be a 1 , on the right of a 1 can only be a 2 , on the right of a 2 can only be a $3, \ldots$, on the right of a 8 can only be a 9 and on the right of a 9 can only be a 0 . For instance, 34567 and 8901 are upward, but 1223 and 245 are not.
Your task is to write a program that, given a sequence of natural numbers, indicates if this contains two or more consecutive upward numbers.
Your program must include the function

```
    begin{verbatim}
        bool is_upward(int n);
    \end{verbatim}
```

that indicates if a natural number n is upward.

## Input

The input is a sequence of natural numbers.

## Output

If the input contains two upward consecutive numbers, your program must print "YES" in a line; otherwise print " NO " in a line.

## Sample input 1

```
1234}43214554 2345 8901 123 6784
```


## Sample input 2

## Sample input 3

900

## Sample output 1

YES

## Sample output 2

NO
Sample output 3
YES

## Problem information

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