

A. Alex and broken contest

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

One day Alex was creating a contest about his friends, but accidentally deleted it. Fortunately, all the problems were saved, but now he needs to find them among other problems.

But there are too many problems, to do it manually. Alex asks you to write a program, which will determine if a problem is from this contest by its name.

It is known, that problem is from this contest if and only if its name contains one of Alex's friends' name **exactly once**. His friends' names are "Danil", "Olya", "Slava", "Ann" and "Nikita".

Names are case sensitive.

Input

The only line contains string from lowercase and uppercase letters and "_" symbols of length, not more than 100 — the name of the problem.

Output

Print "YES", if problem is from this contest, and "NO" otherwise.

Examples

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|-------------------------|
| input |
| Alex_and_broken_contest |
| output |
| NO |

| |
|-----------------|
| input |
| NikitaAndString |
| output |
| YES |

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|----------------|
| input |
| Danil_and_Olya |
| output |
| NO |