

GlobeX Cup '19 J5 - Aliens

Time limit: 0.6s **Memory limit:** 256M
Python: 1.8s

Scientists are constantly listening for aliens. Because of the great distances, some things may come more delayed than others. Thus they need an algorithm that when given two strings, a and b ($2 \leq |a| = |b| \leq 1\,000$), determines whether it is possible to make b by taking a single substring of a and moving it to another index. It should also detect aliens when the two strings are the same.

Input Specification

The input will consist of two newline separated strings, a and b . Each string will only consist of lowercase letters.

Output Specification

Output `aliens` if it is possible, else `no aliens`.

Sample Input 1

```
abcdef
abcfde
```

Sample Output 1

```
aliens
```

Explanation for Sample 1

The substring `f` was moved to after index 3 (starting with 1).

Sample Input 2

```
abcdef
acbdfe
```

Sample Output 2

no aliens

Explanation for Sample 2

There is no single substring that can be moved to create the new string.