
Classification of sequences (2)

P89867_en

Write a program to tell if a sequence of integer numbers is uniform, strictly increasing, strictly decreasing, increasing, decreasing or none of those.

Input

Input consists of a sequence of integer numbers.

Output

If all the numbers are equal, print "uniform". Otherwise, if the sequence is strictly increasing or strictly decreasing, tell so. If none of the previous conditions are fulfilled, print "increasing", "decreasing", or "nothing" as required.

Sample input 1

```
2 3 5 7
```

Sample output 1

```
strictly increasing
```

Sample input 2

```
10 0 -5
```

Sample output 2

```
strictly decreasing
```

Sample input 3

```
4
```

Sample output 3

```
uniform
```

Sample input 4

```
1 2 4 4
```

Sample output 4

```
increasing
```

Problem information

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