## A. Chord

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Vasya studies music.

He has learned lots of interesting stuff. For example, he knows that there are 12 notes: C, C#, D, D#, E, F, F#, G, G#, A, B, H. He also knows that the notes are repeated cyclically: after H goes C again, and before C stands H. We will consider the C note in the row's beginning and the C note after the H similar and we will identify them with each other. The distance between the notes along the musical scale is measured in tones: between two consecutive notes there's exactly one semitone, that is, 0.5 tone. The distance is taken from the lowest tone to the uppest one, that is, the distance between C and E is 4 semitones and between E and C is 8 semitones

Vasya also knows what a chord is. A chord is an unordered set of no less than three notes. However, for now Vasya only works with triads, that is with the chords that consist of exactly three notes. He can already distinguish between two types of triads — major and minor.

Let's define a major triad. Let the triad consist of notes X, Y and Z. If we can order the notes so as the distance along the musical scale between X and Y equals 4 semitones and the distance between Y and Z is 3 semitones, then the triad is major. The distance between X and Z, accordingly, equals 7 semitones.

A minor triad is different in that the distance between X and Y should be 3 semitones and between Y and Z — 4 semitones.

For example, the triad " $C \ E \ G$ " is major: between C and E are 4 semitones, and between E and G are 3 semitones. And the triplet " $C\# \ B \ F$ " is minor, because if we order the notes as " $B \ C\# \ F$ ", than between B and  $C\# \ will be 3$  semitones, and between  $C\# \ and \ F \ 4$  semitones.

Help Vasya classify the triad the teacher has given to him.

## Input

The only line contains 3 space-separated notes in the above-given notation.

## Output

Print "major" if the chord is major, "minor" if it is minor, and "strange" if the teacher gave Vasya some weird chord which is neither major nor minor. Vasya promises you that the answer will always be unambiguous. That is, there are no chords that are both major and minor simultaneously.

## **Examples**

input	
CEG	
output major	
major	
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```
input
C# B F
output
minor
```

nput
B H

output	
strange	