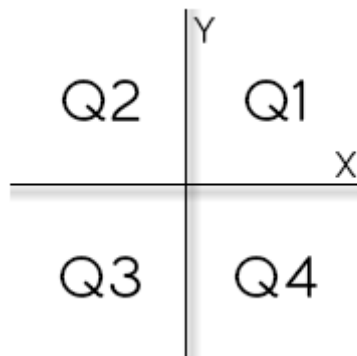

Coordinates of a Point

Input file: `standard input`
Output file: `standard output`
Time limit: 1 second
Memory limit: 256 megabytes

Given two numbers X , Y which donate coordinates of a point in 2D plan. Determine in which quarter does it belong.

Note:

- Print **Q1**, **Q2**, **Q3**, **Q4** according to the quarter in which the point belongs to.
- Print **“Origem”** If the point is at the origin.
- Print **”Eixo X”** If the point is over X axis.
- Print **“Eixo Y”** if the point is over Y axis.



Input

Only one line containing two numbers X, Y ($-1000 \leq X, Y \leq 1000$).

Output

Print the answer to problem above.

Examples

standard input	standard output
4.5 -2.2	Q4
0.1 0.1	Q1