

DMOPC '18 Contest 4 P0 - Dr. Henri and Seeing Stars

Time limit: 2.0s **Memory limit:** 64M

Dr. Henri is looking through his telescope at the MRD Observatory. His telescope is positioned so that it can see all the stars inside a circle of radius R centred at the coordinates (X, Y) in the night sky. The telescope **cannot** see a star if it is on the edge of the circle.

Dr. Henri is interested in 3 particular stars: A , B , and C . Referring to his star charts, he notes that their coordinates are (x_A, y_A) , (x_B, y_B) , and (x_C, y_C) and their **magnitudes** are m_A , m_B , and m_C respectively. The magnitude of a star is a measure of its brightness, but interestingly, its scale is reversed: **the smaller the magnitude, the brighter the star**.

Dr. Henri wonders if he can see the brightest star among A , B , and C through his telescope. It is guaranteed that no two of these stars are of the same magnitude.

Constraints

$$1 \leq R \leq 100$$

$$-100 \leq x_A, y_A, x_B, y_B, x_C, y_C, X, Y \leq 100$$

$$-100 \leq m_A, m_B, m_C \leq 100$$

Input Specification

The first line of input will contain three space-separated integers, R , X , and Y .

The second line will contain three space-separated integers, x_A , y_A , and m_A .

The third line will contain three space-separated integers, x_B , y_B , and m_B .

The final line will contain three space-separated integers, x_C , y_C , and m_C .

Output Specification

If Dr. Henri can see the brightest star among A , B , and C , output `What a beauty!`. Otherwise, output `Time to move my telescope!`.

Sample Input 1

```
5 2 1
3 1 5
1 4 2
-9 1 4
```

Sample Output 1

What a beauty!

Sample Input 2

```
5 2 1
6 5 -1
0 7 2
-2 -3 3
```

Sample Output 2

Time to move my telescope!