# **Quick Race**

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## **Description**

In minecraft we can fly using the elytra with a rocket as fuel. Given 3 coordinates A, B, and C in a 3d space, I must fly starting from point A to C where I can stop (not a must) at point B. There are rA number of rockets that I can get at point A and A number of rockets that I can get at point A and A number of rockets that I can get at point A number of rockets that I can get at point A number of A num

### **Input Format**

Three lines which consists of coordinate at x, y, and z axis in that order. First line is for point A, second line is point B, and third line is point C. Last line is rA, rB, and RD.

### **Output Format**

If I can fly from A to C without stopping then output "NAH ID WIN, NO NEED TO STOP", but if I stop at B and can still reach C then output "HHM BETTER TAKE ROCKET, STILL CAN WIN". If I cannot reach C even when taking rockets at B then output "GIVE UP ALREADY, MINING BETTER".

### **Rules and Constraints**

- $x, y \in [-2147483648, 2147483647], z \in [-64, 320]$
- $rA, rB \in [0, 10^3]$
- $RD \in [10, 10^3]$

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• Point  $A \neq B$ , point  $A \neq C$ , point  $B \neq C$ 

# Example 1

# Input 100 100 100 250 250 250 800 800 800 20 10 100 Output NAH ID WIN, NO NEED TO STOP

# Example 2

```
Input

100 100 100
250 250 250
800 800 800
3 10 100

Output

HHM BETTER TAKE ROCKET, STILL CAN WIN
```

# Example 3

| Input                       |     |
|-----------------------------|-----|
| 100 100 100                 |     |
| 250 250 250                 |     |
| 800 800 800                 |     |
| 3 1 100                     |     |
| Output                      |     |
| GIVE UP ALREADY, MINING BET | TER |

# Hint

• Extra hint *might* be given at the last day (idk the time, I'll update the pdf)

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