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

- $x, y \in [-2147483648, 2147483647], z \in [-1000, 1000]$
- $rA, rB \in [0, 10^3]$
- $RD \in [10, 10^3]$

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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 BETTER

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Hint, idk if this helps, goodluck $\ensuremath{\mathfrak{C}}$

- Extra hint *might* be given at the last day (idk the time, I'll update the pdf)
- Remember that it is not mandatory to stop at B, it means that if rA is sufficient to reach C then we don't need to stop
- Suppose distance of A to B is 125 and rD is 50, then to reach B we need 3 rockets and not 2.5 rockets
- In the case that we chose to stop at B, remember there is a chance where not all
 rA rockets are used, there might be some leftover that can be used as well with rB
 rockets

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