### Sample input 1

4 2

31

10

30

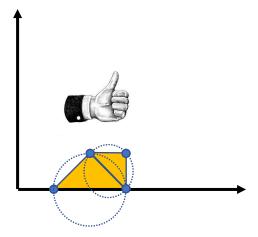
21

123

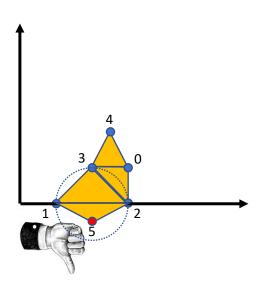
203

### Sample output 1

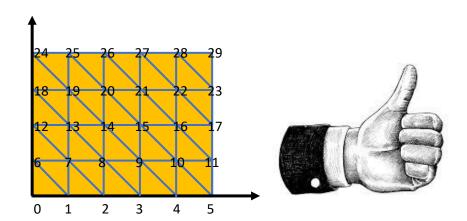
YES



# Sample input 2 6 4 3 1 1 0 3 0 2 1 2.5 2 2.0 -0.50 1 2 3 2 0 3 3 0 4 1 5 2 Sample output 2 NO



# Sample input 3 30 40 0 0 1 0 2 0 3 0 4 0 5 0 0 1 1 1 2 1 3 1 4 1 5 1

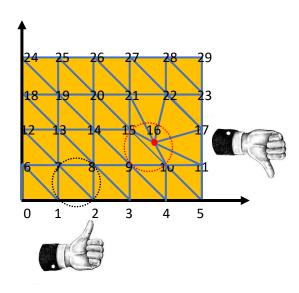


### Sample output 3

YES

### Sample input 4 30 40 00 10 20 30 40 50 01 11 21 3 1 41 5 1 02 12 22 3 2 3.60 1.60 5 2 03 13 23 33 43 53 04 14 24 3 4 44 5 4 016 176 127 287 238 398 3 4 9 4 10 9 4510 5 11 10 6712 7 13 12 7813 8 14 13 8914 9 15 14 9 10 15 10 16 15 10 11 16 11 17 16 12 13 18 13 19 18 13 14 19 14 20 19

14 15 20 15 21 20



### Sample output 4

NΩ

# Sample input 5

A test case with about 1000 triangles and output = YES

## Sample input 6

A test case with about 1000 triangles and with output= NO

There will be more cases