
Viking Assault

X40503_en

Input

On the first line, we are given the number of targets and the number of shots taken, separated by a space. Then, for each target, we are given the coordinates X and Y respectively in each line, separated by a space. Finally, for each shot, we are given the angle at which the cannon was placed, and the reach of the shot from the ship, separated by a space.

Output

Each output line corresponds to an input target, in the same order the targets were given. If the target has been sunk, the output should be "DESTROYED"; if not, then the output should be the ship's remaining health percentage (as an integer value).

Sample input 1

```
4 3
-10 10
0 20
5 19
10 10
45 10
99 22
89 20
```

Sample output 1

```
100
DESTROYED
95
83
```

Problem information

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