## horizontal line

**Maximum Circles**

# **Problem Statements :**

There are *n* circles arranged on x-y plane. All of them have their centers on x-axis. You have to remove some of them, such that no two circles are overlapping after that. Find the minimum number of circles that need to be removed.

# **Input Format :**

First line contains a single integer, *n*, denoting the number of circles. Next line contains two integers, *c* and *r* each, denoting the circle with radius *r* and center, (*c*,0).

# **Constraints :**

1<=n<=10^5  
|c|<=10^9  
1<=r<=10^9

# **Output Format :**

Print a single integer denoting the answer.

# **Sample Input :**

4  
1 1  
2 1  
3 1  
4 1

**Sample Output :**

2

**Explanation :**

We can remove 1st and 3rd circle, or 2nd and 4th circle.

**Time Limit :**

2 sec