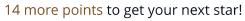# Kangaroo ☆

Problem   **Submissions**   Leaderboard   Editorial

You made this submission 15 hours ago.

Score: 10.00   **Status: Accepted**

People who solved **Kangaroo** attempted this next:

Between Two Sets

Find the number of integers that satisfies certain criteria relative to two sets.
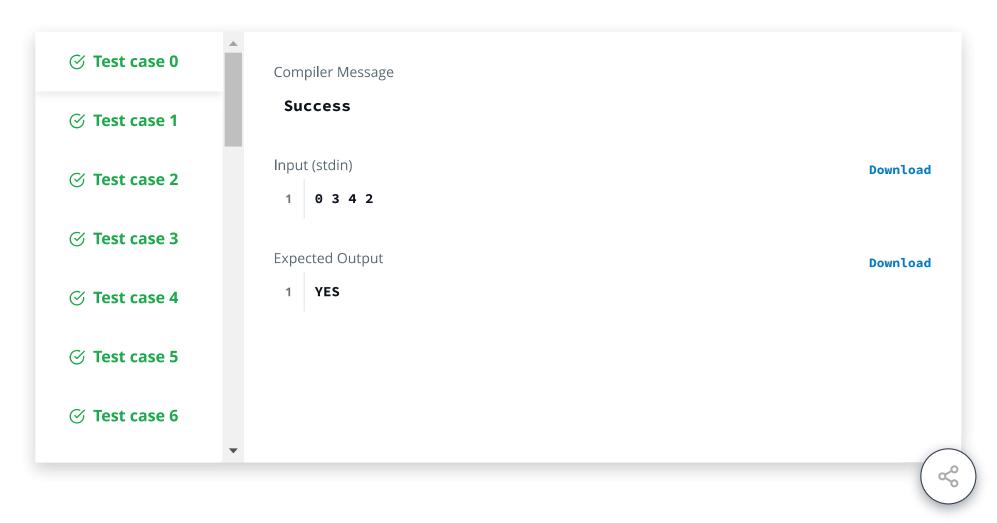
Solve Challenge

Submitted Code

Language: Python 2   ⑂ Open in editor

```python
1  x1, v1, x2, v2 = map(int, raw_input().split())
2  X = [x1, v1]
3  Y = [x2, v2]
4  back = min(X, Y)
5  fwd = max(X, Y)
6  dist = fwd[0] - back[0]
7
```

```
 8  while back[0] < fwd[0]:
 9      back[0] += back[1]
10      fwd[0] += fwd[1]
11      if fwd[0] - back[0] >= dist:
12          break
13
14  print ["NO", "YES"][back[0] == fwd[0]]
15
```

✓ **Test case 0**

✓ **Test case 1**

✓ **Test case 2**

✓ **Test case 3**

✓ **Test case 4**

✓ **Test case 5**

✓ **Test case 6**

Compiler Message

Success

Input (stdin)   Download

1   **0 3 4 2**

Expected Output   Download

1   **YES**

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