

2849. Determine if a Cell Is Reachable at a Given Time

Solved ●

Medium Topics Companies Hint

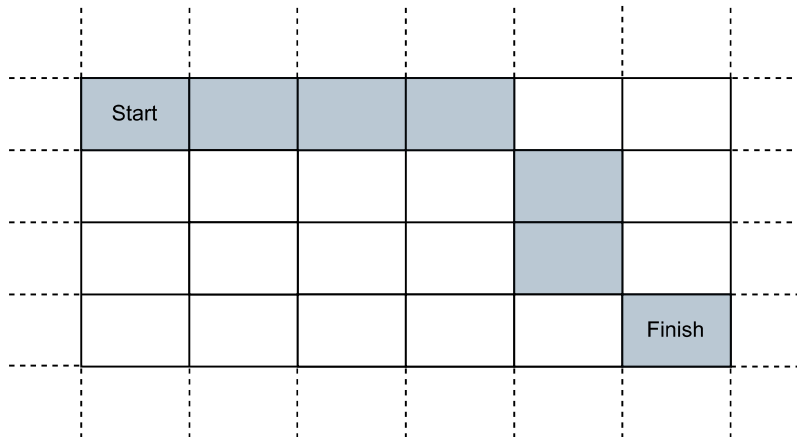
You are given four integers sx , sy , fx , fy , and a **non-negative** integer t .

In an infinite 2D grid, you start at the cell (sx, sy) . Each second, you **must** move to any of its adjacent cells.

Return `true` if you can reach cell (fx, fy) after **exactly** t seconds, or `false` otherwise.

A cell's **adjacent cells** are the 8 cells around it that share at least one corner with it. You can visit the same cell several times.

Example 1:

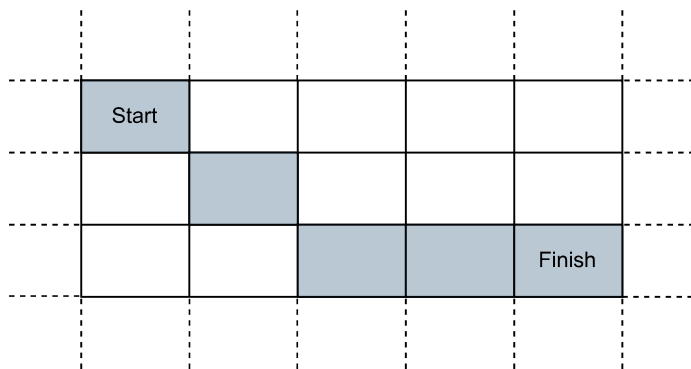


Input: $sx = 2, sy = 4, fx = 7, fy = 7, t = 6$

Output: `true`

Explanation: Starting at cell $(2, 4)$, we can reach cell $(7, 7)$ in exactly 6 seconds by going through the cells depicted in the picture above.

Example 2:



Input: $sx = 3, sy = 1, fx = 7, fy = 3, t = 3$

Output: `false`

Explanation: Starting at cell $(3, 1)$, it takes at least 4 seconds to reach cell $(7, 3)$ by going through the cells depicted in the picture above. Hence, we cannot reach cell $(7, 3)$ at the third second.

Constraints:

- $1 \leq sx, sy, fx, fy \leq 10^9$
- $0 \leq t \leq 10^9$

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Yes No

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Hint 1



Hint 2



Hint 3



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