

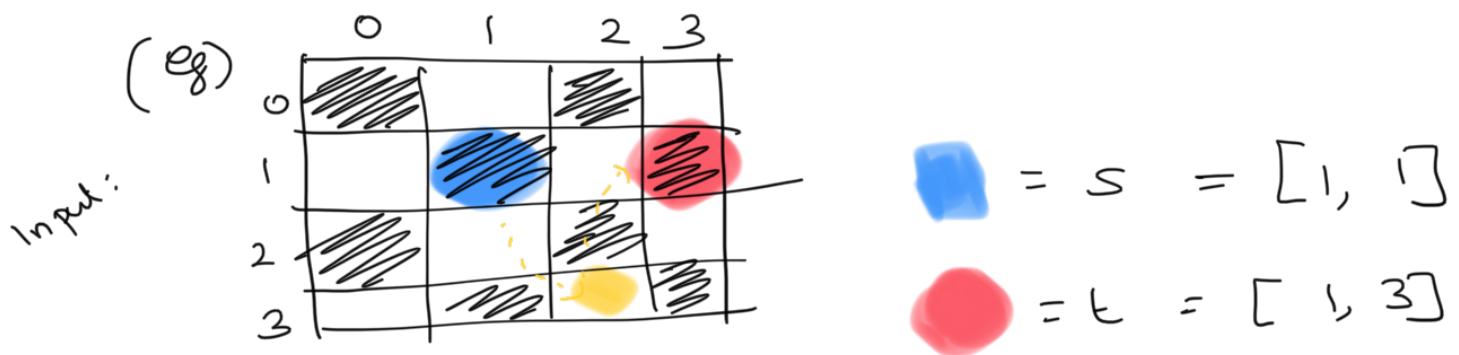
Reachable by knight moves?

Input: $N \times M$ chess board

$s = [s_0, s_1]$: start pos of knight

$t = [t_0, t_1]$: target pos of knight.

Output: Is t reachable from s by the knight?



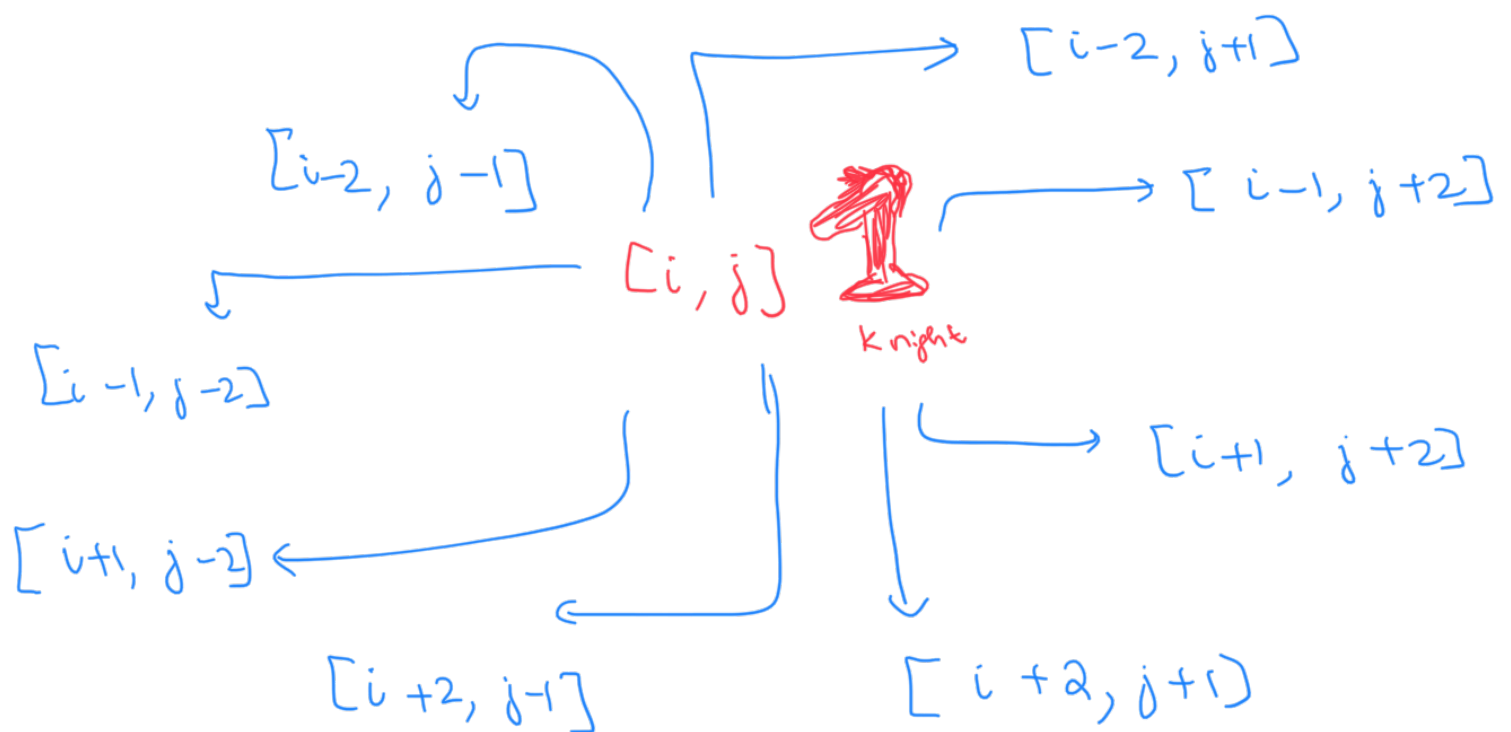
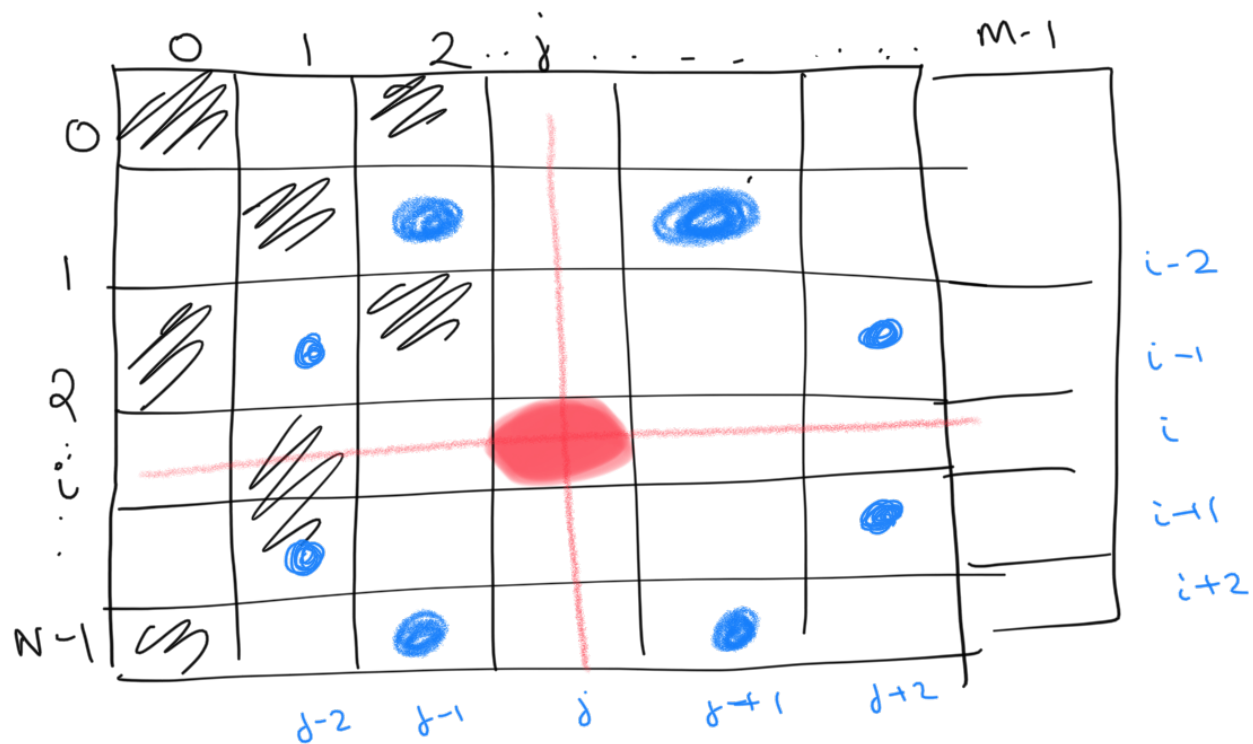
Output: True,

$[1, 1] \rightarrow [3, 2] \rightarrow [1, 3]$

Algorithm :

- Think of each square as a node
- Join 2 nodes if connected by 1 Knight move
- Do BFS from source = s , and see if t is reachable.

Details



- Potentially 8 edges from (i, j)
- Need $[a, b] \dots$
 - $0 \leq a \leq N-1$
 - $0 \leq b \leq M-1$