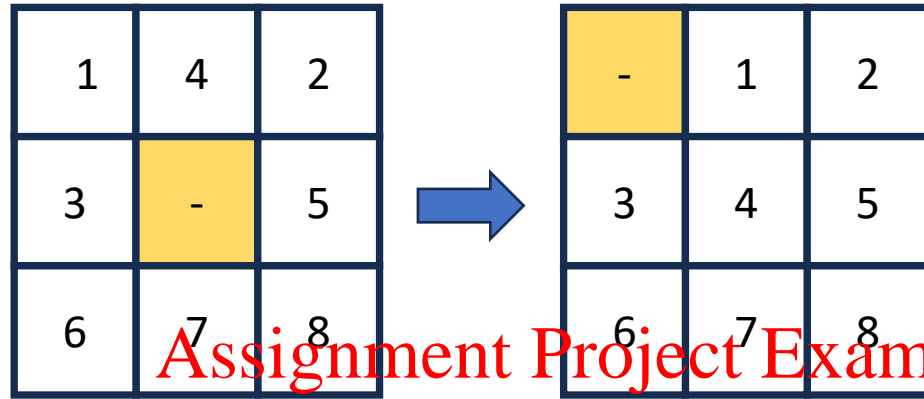


## Further example about actual returned path



Initial State

Goal Test

<https://tutorcs.com>

Initial input is: 1,4,2,3,\_,5,6,7,8

Final goal test: \_,1,2,3,4,5,6,7,8

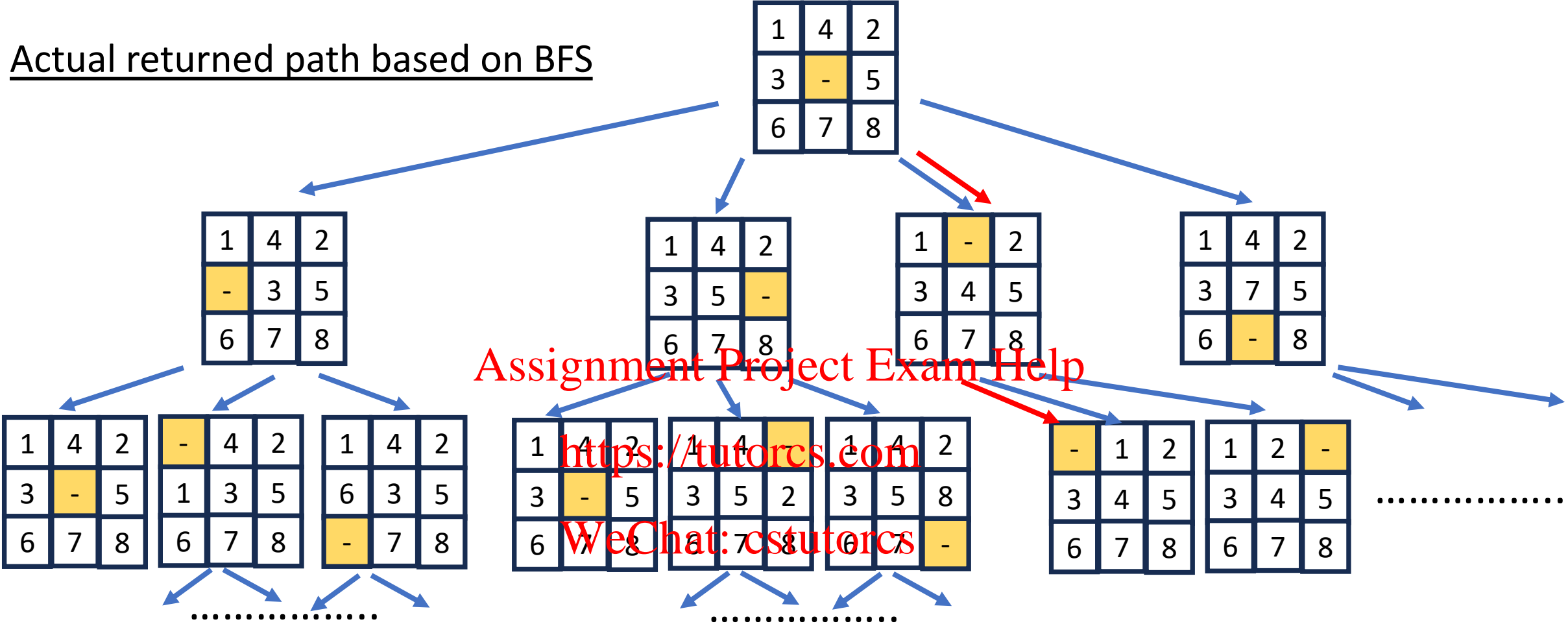
WeChat: cstutorcs

### Rules to describe the actual returned path:

There are four symbols we expected to see in your actual return path: U,D,R,L

1. U => tile moves Up
2. D => tile moves Down
3. R => tile moves Right
4. L => tile moves Left

Actual returned path based on BFS

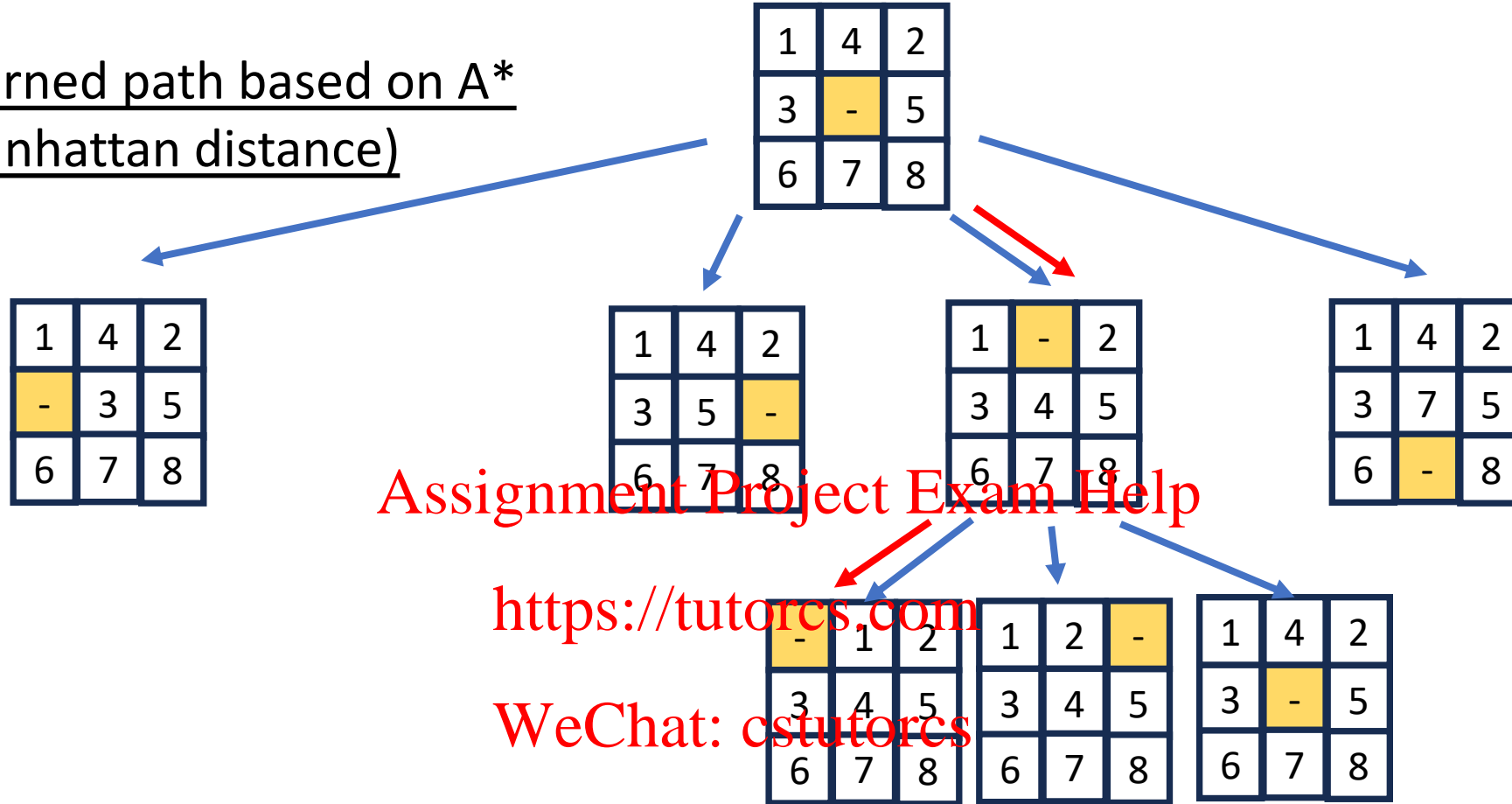


Initial input is: 1,4,2,3,\_,5,6,7,8

Actual returned path (See the red path above): 4D,1R

Explanation about this path: This path corresponds to you moving the 4 tile down (as your first action), and then move the 1 tile to the right (as your second action). In this case, we only needed two actions to reach the goal state, but your problem might require more. You are supposed to print out all the actions that you need to get to the goal state (from the starting state), and these actions would be the ones returned by your algorithm

Actual returned path based on A\* search (Manhattan distance)



Initial input is: 1,4,2,3,\_,5,6,7,8

Actual returned path (See the red path above): 4D,1R

Explanation about this path: This path corresponds to you moving the 4 tile down (as your first action), and then move the 1 tile to the right (as your second action). In this case, we only needed two actions to reach the goal state, but your problem might require more. You are supposed to print out all the actions that you need to get to the goal state (from the starting state), and these actions would be the ones returned by your algorithm.