

## Task 1

0        \_ \_ H H **H T** T T  
1        **H T** **H H** \_ \_ T T  
2        H T \_ \_ **H H** **T T**  
3        H T **T** **T H** H \_ \_  
4        **H T** T \_ \_ H **T H**  
5        \_ \_ T **H T** H T H

Yellow shows the pair that is about to get moved. The Bold is what was just moved. It is solvable in 5 moves.

## Task 2

0        \_ \_ H H **H T** T  
1        **H T** **H H** \_ \_ T  
2        H T \_ \_ **H H** **T**  
3        H T **H T** H \_ \_

Yellow shows the pair that is about to get moved. The Bold is what was just moved. It is solvable in 3 moves.

## Efficiency

Because we're no longer looping through the iteration, we weren't too sure how to count the actions/iterations. We included a num\_actions counter for all actions that were updating coin positions, deleting coin positions and making changes to the various indexes for our algorithm. Our n is based on the number of coins.

