Tasks 1, 2, 4, 5 are demonstrated in the code/CLI

Task 3:

3 heads, 3 tails
Starting
H H H T T T

Moves:
H H T H T T
H T H H T T
H T H T H T
Moves: 3

Strategy:

Loop through the coins starting from the left, until we see a double up of heads
before a tail. If we do see a double up of heads followed by a tail, we flip the
second head and the first tail. This continues until we have looped through all
coins without seeing any double ups.

Our "rough" estimation of efficiency is somewhere in between n^2, and n^3
I included an iteration counter for every operation in the for function.

Efficiency Comparison