Problem 6

a) Problem 4 function: 25 instructionsProblem 5 function: 30 instructions

b) Problem 4 function takes 36 instructions for an input of 3
Problem 5 function takes 15 instructions for a base case, and 29 for a non-base case. The problem is solved according to the following tree:

Giving us 3 base cases and 2 non-base cases, or 103 instructions

- c) The non-recursive function uses the most registers, since it needs to keep track of more values per function call, due to its looping nature
- d) The recursive function uses the most memory, since it needs to keep track of more values as it recurses down
- e) The non-recursive case (problem 4)