

Nicholas Garrett

Professor Beard

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Project 5

1.

See Code

2.

3.

Worst case: $O(n)$. The worse case would be for each inputted value, it had to be flipped with every value above it, equal to the level it is in.

Average case: $O(n)$. This case is still dependant on the number of values present, so it is of order n .