Benchmarks:

Part 1) puzzle 0-50: 12.96sec + 2013662 calls; full file: N/A

Part 2) puzzle 0-50: 0.0464sec + 477 calls; full file: 12.635sec + 253619 calls

Part 3) puzzle 0-50: 5.4sec + 12342 calls; full file: 368.323sec + 392342 calls

Part 4) Part A full file: 368.534sec + 392342 calls