**Problem 1**

From looking at the results and the graph SelectionSort is certainly faster than BubbleSort. I calculated the SelectionSort is around 120 % faster than BubbleSort.

**Problem 2**

A. 996

B. 4980

c. 1992

I received the same answers from the code

**Problem 3**

I found that the algorithm with the square root taken out of the loop was 17% faster.

**Problem 4**

1. 4,426,185, 368
2. 16, 777, 216
3. 40,320
4. (4,426,185,368+16,777,216+40,320)=/10,000,000,000=.4443