**SIZE = 10, randSize = 10**

**Selection Sort:**

Comparisons = 63

Swaps = 9

Efficiency = 6

Improved Efficiency = 7

CPU Time = 0.00s

**Bubble Sort:**

Comparisons = 63

Swaps = 45

Efficiency = 6

Improved Efficiency = 10

CPU Time = 0.00s

**Short Bubble Sort:**

Comparisons = 63

Swaps = 45

Efficiency = 6

Improved Efficiency = 10

CPU Time = 0.00s

**Insertion Sort:**

Comparisons = 18

Swaps = 90

Efficiency = 1

Improved Efficiency = 10

CPU Time = 0.00s

**SIZE = 100, randSize = 100**

Selection Sort:

Comparisons = 5,148

Swaps = 99

Efficiency = 51

Improved Efficiency = 52

CPU Time = 0.00s

Bubble Sort:

Comparisons = 5,148

Swaps = 4,950

Efficiency = 51

Improved Efficiency = 100

CPU Time = 0.00s

Short Bubble Sort:

Comparisons = 5,148

Swaps = 4,950

Efficiency = 51

Improved Efficiency = 100

CPU Time = 0.00s

Insertion Sort:

Comparisons = 198

Swaps = 9,900

Efficiency = 1

Improved Efficiency = 100

CPU Time = 0.00s

**SIZE = 1000, randSize = 1000**

Selection Sort:

Comparisons = 501,498

Swaps = 999

Efficiency = 501

Improved Efficiency = 502

CPU Time = 0.01s

Bubble Sort:

Comparisons = 501,498

Swaps = 499,500

Efficiency = 501

Improved Efficiency = 1,000

CPU Time = 0.01s

Short Bubble Sort:

Comparisons = 501,498

Swaps = 499,500

Efficiency = 501

Improved Efficiency = 1,000

CPU Time = 0.01s

Insertion Sort:

Comparisons = 1,998

Swaps = 999,000

Efficiency = 1

Improved Efficiency = 1,000

CPU Time = 0.01s

**SIZE = 10000, randSize = 10000**

Selection Sort:

Comparisons = 50,014,998

Swaps = 9,999

Efficiency = 5,001

Improved Efficiency = 5,002

CPU Time = 0.12s

Bubble Sort:

Comparisons = 50,014,998

Swaps = 49,995,000

Efficiency = 5,001

Improved Efficiency = 10,000

CPU Time = 0.10s

Short Bubble Sort:

Comparisons = 50,014,998

Swaps = 49,995,000

Efficiency = 5,001

Improved Efficiency = 10,000

CPU Time = 0.10s

Insertion Sort:

Comparisons = 19,998

Swaps = 99,990,000

Efficiency = 1

Improved Efficiency = 10,000

CPU Time = 0.10s

**SIZE = 100000, randSize = 100000**

Selection Sort: Comparisons = 705,182,702

Swaps = 99,999

Efficiency = 7,051

Improved Efficiency = 7,052

CPU Time = 5.90s

Bubble Sort: Comparisons = 705,182,702

Swaps = 704,982,704

Efficiency = 7,051

Improved Efficiency = 14,101

CPU Time = 9.01s

Short Bubble Sort: Comparisons = 705,182,702

Swaps = 704,982,704

Efficiency = 7,051

Improved Efficiency = 14,101

CPU Time = 9.35s

Insertion Sort: Comparisons = 199,998

Swaps = 1,409,965,408

Efficiency = 1

Improved Efficiency = 14,101

CPU Time = 9.16s