Unsorted list size = 100

63 94 92 16 93 26 83 61 52 75 50 18 64 94 75 84 28 69 29 59

33 63 97 44 70 65 46 45 22 22 61 44 44 97 22 67 88 89 79 47

87 62 43 86 93 73 36 99 66 75 61 44 43 50 72 54 20 22 23 36

93 88 78 76 75 47 68 97 55 31 31 95 54 77 27 43 79 73 22 39

65 80 70 26 50 60 97 35 13 88 40 32 61 73 33 72 54 74 60 40

Quick Sort

13 16 18 20 22 22 22 22 22 23 26 26 27 28 29 31 31 32 33 33

35 36 36 39 40 40 43 43 43 44 44 44 44 45 46 47 47 50 50 50

52 54 54 54 55 59 60 60 61 61 61 61 62 63 63 64 65 65 66 67

68 69 70 70 72 72 73 73 73 74 75 75 75 75 76 77 78 79 79 80

83 84 86 87 88 88 88 89 92 93 93 93 94 94 95 97 97 97 97 99

Unsorted list

63 94 92 16 93 26 83 61 52 75 50 18 64 94 75 84 28 69 29 59

33 63 97 44 70 65 46 45 22 22 61 44 44 97 22 67 88 89 79 47

87 62 43 86 93 73 36 99 66 75 61 44 43 50 72 54 20 22 23 36

93 88 78 76 75 47 68 97 55 31 31 95 54 77 27 43 79 73 22 39

65 80 70 26 50 60 97 35 13 88 40 32 61 73 33 72 54 74 60 40

Bubble sort

13 16 18 20 22 22 22 22 22 23 26 26 27 28 29 31 31 32 33 33

35 36 36 39 40 40 43 43 43 44 44 44 44 45 46 47 47 50 50 50

52 54 54 54 55 59 60 60 61 61 61 61 62 63 63 64 65 65 66 67

68 69 70 70 72 72 73 73 73 74 75 75 75 75 76 77 78 79 79 80

83 84 86 87 88 88 88 89 92 93 93 93 94 94 95 97 97 97 97 99

Unsorted list Size = 100

The quick sort time is 7148624

The bubble sort time is 9613401

Unsorted list Size = 1000

The quick sort time is 5016759

The bubble sort time is 37735462

Unsorted list Size = 10000

The quick sort time is 5161413

The bubble sort time is 1375480772

**with the initSorted**

Size = 100000

The quick sort time is 42725546

The bubble sort time is 56386723