

3.26.24 lab activity

{ 4, 5, 9, 0, 7, 6, 13 }

{ 4, 5, 9, 0, 7, 6, 13 }

Bubble Sort:

pass 1: { 4, 5, 0, 7, 6, 1, 93 }

pass 2: { 4, 5, 0, 6, 1, 7, 93 }

pass 3: { 4, 5, 0, 1, 6, 7, 93 }

pass 4: { 4, 0, 1, 5, 6, 7, 93 }

pass 5: { 0, 1, 4, 5, 6, 7, 93 }

Merge Sort:

{ 4, 5, 9, 03 } { 7, 6, 13 }

{ 4, 53 } { 9, 03 } { 7, 63 } { 13 }

{ 4, 53 } { 0, 93 } { 6, 73 } { 13 }

{ 0, 4, 5, 93 } { 1, 6, 73 }

{ 0, 1, 4, 5, 6, 7, 93 }

{ 4, 5, 9, 0, 7, 6, 13 }

Selection Sort:

{ 0, 5, 9, 4, 7, 6, 13 }

{ 0, 1, 9, 4, 7, 6, 53 }

{ 0, 1, 4, 9, 7, 6, 53 }

{ 0, 1, 4, 5, 7, 6, 93 }

{ 0, 1, 4, 5, 6, 7, 93 }

{ 4, 5, 9, 0, 7, 6, 13 }

Insertion Sort:

{ 0, 4, 5, 9, 7, 6, 13 }

{ 0, 4, 5, 7, 9, 6, 13 }

{ 0, 4, 5, 6, 7, 9, 13 }

{ 0, 1, 4, 5, 6, 7, 93 }

{ 4, 5, 9, 0, 7, 6, 13 }

quick sort:

{ 4, 5, 9, 1, 7, 6, 03 }

{ 0, 5, 9, 1, 7, 6, 43 }

{ 0, 5, 9, 4, 7, 6, 13 }

{ 0, 1, 9, 4, 7, 6, 53 }

{ 0, 1, 9, 4, 5, 6, 73 }

{ 0, 1, 6, 4, 5, 9, 73 }

{ 0, 1, 6, 4, 5, 7, 93 }

{ 0, 1, 6, 5, 4, 7, 93 }

{ 0, 1, 4, 5, 6, 7, 93 }

{ 0, 1, 4, 6, 5, 7, 93 }

{ 0, 1, 4, 5, 6, 7, 93 }