

Sorts & Searches

Name: _____

Date: _____

Linear Search:

Given the number of checks and the result of each search on the following lists:

List	4	3	1	2	6	7	-2
------	---	---	---	---	---	---	----

Find: 2

Indexes Checked:

Result:

List	4	3	1	2	6	7	-2
------	---	---	---	---	---	---	----

Find: -2

Indexes Checked:

Result:

List	4	3	1	2	6	7	-2
------	---	---	---	---	---	---	----

Find: 8

Indexes Checked:

Result:

List	1	2	5	6	16	57	211
------	---	---	---	---	----	----	-----

Find: 57

Indexes Checked:

Result:

Linear Search:

Given the number of checks and the result of each search on the following lists:

List	1	67	123	221	432	865	1298
------	---	----	-----	-----	-----	-----	------

Find: 2

Indexes Checked:

Result:

List	1	67	123	221	432	865	1298	8488
------	---	----	-----	-----	-----	-----	------	------

Find: 1

Indexes Checked:

Result:

List	-9	-4	-2	0	6	7	12
------	----	----	----	---	---	---	----

Find: 0

Indexes Checked:

Result:

List	1	2	5	6	16	57	211
------	---	---	---	---	----	----	-----

Find: 300

Indexes Checked:

Result:

Selection Sort:

Show the array after each pass of a selection sort.

Data	4	3	1	2	6	7	-2
After 1 st Pass							
After 2 nd Pass							
After 3 rd Pass							
After 4 th Pass							
After 5 th Pass							
After 6 th Pass							

Show the array after each pass of a selection sort.

Data	50	17	4	17	4	3	1	9
After 1 st Pass								
After 2 nd Pass								
After 3 rd Pass								
After 4 th Pass								
After 5 th Pass								
After 6 th Pass								
After 7 th Pass								

Insertion Sort:

Show the array after each pass of an insertion sort.

Data	4	3	1	2	6	7	-2
After 1 st Pass							
After 2 nd Pass							
After 3 rd Pass							
After 4 th Pass							
After 5 th Pass							
After 6 th Pass							

Show the array after each pass of an insertion sort.

Data	50	17	4	17	4	3	1	9
After 1 st Pass								
After 2 nd Pass								
After 3 rd Pass								
After 4 th Pass								
After 5 th Pass								
After 6 th Pass								
After 7 th Pass								

Merge Sort:

Draw out the break down and merges of merge sort.

Data	4	3	1	2	6	7	-2
------	---	---	---	---	---	---	----

Show the array after each pass of a merge sort.

Data	50	17	4	17	4	3	1	9
------	----	----	---	----	---	---	---	---