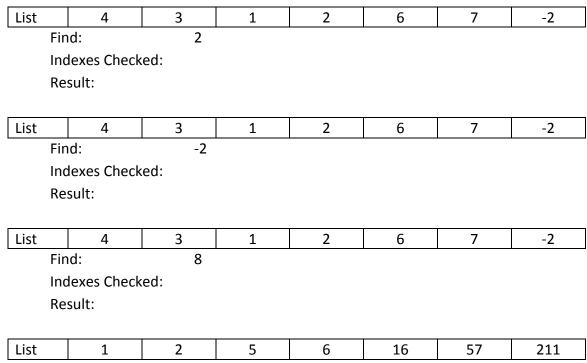
#### **Sorts & Searches**

Name: .	 	 	
Date:			

### **Linear Search:**

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



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
Fi	nd:	2					
In	dexes Check	æd:					
Re	esult:						
List	1	67 1	23 221	432	865	1298	8488
Fi	nd:	1					
In	dexes Check	æd:					
Re	esult:						
List	-9	-4	-2	0	6	7	12
Fi	nd:	0					
In	dexes Check	æd:					
Re	esult:						
List	1	2	5	6	16	57	211
Fi	nd:	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 <sup>st</sup> Pass							
After 2 <sup>nd</sup> Pass							
After 3 <sup>rd</sup> Pass							
After 4 <sup>th</sup> Pass							
After 5 <sup>th</sup> Pass							
After 6 <sup>th</sup> Pass							

Show the array after each pass of a selection sort.

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

### **Insertion Sort:**

Show the array after each pass of an insertion sort.

Data	4	3	1	2	6	7	-2
After 1 <sup>st</sup> Pass							
After 2 <sup>nd</sup> Pass							
After 3 <sup>rd</sup> Pass							
After 4 <sup>th</sup> Pass							
After 5 <sup>th</sup> Pass							
After 6 <sup>th</sup> Pass							

Show the array after each pass of an insertion sort.

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

# **Merge Sort:**

Draw out the break down and merges of merge sort.

Data	1 4	2	4	2	_	_	
Data	4	3	1	2	ь	/	-2

Show the array after each pass of a merge sort.

Data	50	17	4	17	4	3	1	9	
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