CODE

Valid file name according to instruction	1
Organized and readable code	1
Executable code	**1** if it compiles, **2** if it runs without error
Time calculation	2

Bubble sort (8 points)

Performs sort in place	2
Loops enough times	2
Correct output	1
Other	3

Heap Sort (11 points)

Correct output	1
Uses a heap correctly	2
Sorting is handled by the heap (student only inserts and removes from it)	2
Other	6

Quicksort (13 points)

Correct output	2
Deterministic and correctly split	2
Concatenation	3
Other	6

Merge sort (12 points)

Correct output	2
merge	4
Split correctly	2
Other	4

REPORT

Cover page	1
Introduction	5

Theoretical analysis	(10 total)	
	Analysis of time complexities	5
	Discusses how time relates to input type	3
	Other	2

Experimental setup		
Machine specifications		4
Experiment repeated		3
Experimental procedure	(8 total)	
	How good the actual experiment was	4
	Explanation	4

Experimental results		
Graphs	(9 total)	
	The type of graph is appropriate	2
	Legends	1
	Able to clearly visualize data	3
	Plots the correct data with enough data points	3
Discussion	(10 total)	
	Which algorithm did best (correct and explains why)	5
	How well did the theoretical analysis agree	5