

Sort Search Assignment

How long did it take - It took about 3 hours.

What was the hardest part - using trace on the pseudocode.

Was anything unclear? - Nothing was unclear in this assignment.

I believe the Algorithmic efficiency of this program is $O(\log n)$.

Main()

Prompt for Json file, Read, then transfer into file.

PROMPT for json file

READ json file

contents <- file.load

Set Variables

Start the loop to sort the contents

A FOR i_pivot <- content.length-1, i_pivot > 0, i_pivot-=1

i_largest <- 0

B FOR i_sort <- 0, i_sort < i_pivot, i_sort++

IF i_sort > i_largest

C i_largest <- i_sort

IF i_largest > i_pivot

swap <- contents[i_pivot]

contents[i_pivot] <- contents[i_largest]

D contents[i_largest] <- swap

End

	i_sort	i_pivot	i_largest	swap	cont-sort	cont-pivot	cont-largest
A	/	3	/	/	/	55	/
B	0	3	0	/	26	55	26
C	0	3	0	/	26	55	26
B	1	3	0	/	6	55	26
C	1	3	0	/	6	55	26
B	2	3	2	/	90	55	90
C	2	3	2	/	90	55	90
D	2	3	2	90	90	90	55
A	2	2	0	90	55	55	26
B	0	2	0	90	26	55	26
C	0	2	0	90	26	55	26
B	1	2	0	90	6	55	26
C	1	2	0	90	6	55	26
A	1	1	0	90	6	6	26
B	0	1	0	90	26	6	26
C	0	1	0	90	26	6	26
D	0	1	0	26	6	26	6