Research Paper User Document

This program was built and compiled inside of an IDE. To run, either run via an IDE the program main.cpp in the 334Research folder or via command line with main.cpp. The only outside text file that will be required is the numbers.txt file included in the folder and is opened automatically when launching the program.

When a user runs the program, they will get a menu that contains the options for 10 different sorting methods. The console will prompt the user to insert a number corresponding to the different menu options. An example of the menu is below:

A screen shot of a computer

Description automatically generated

A user will input the number corresponding to the sorting method (in the example we chose the Heap Sort option 4).

A screen shot of a computer

Description automatically generated

The console will return with a line that states what sorting method was chosen and the amount of operations and the amount of time that was required, along with a prompt for another option where the user can choose another sorting method or close the program.

A computer screen with white text

Description automatically generated

Example of user inputting 4 then 5 then 7 then 0: A screenshot of a computer

Description automatically generated