

Ethan Yang and Maryfrances Umeora

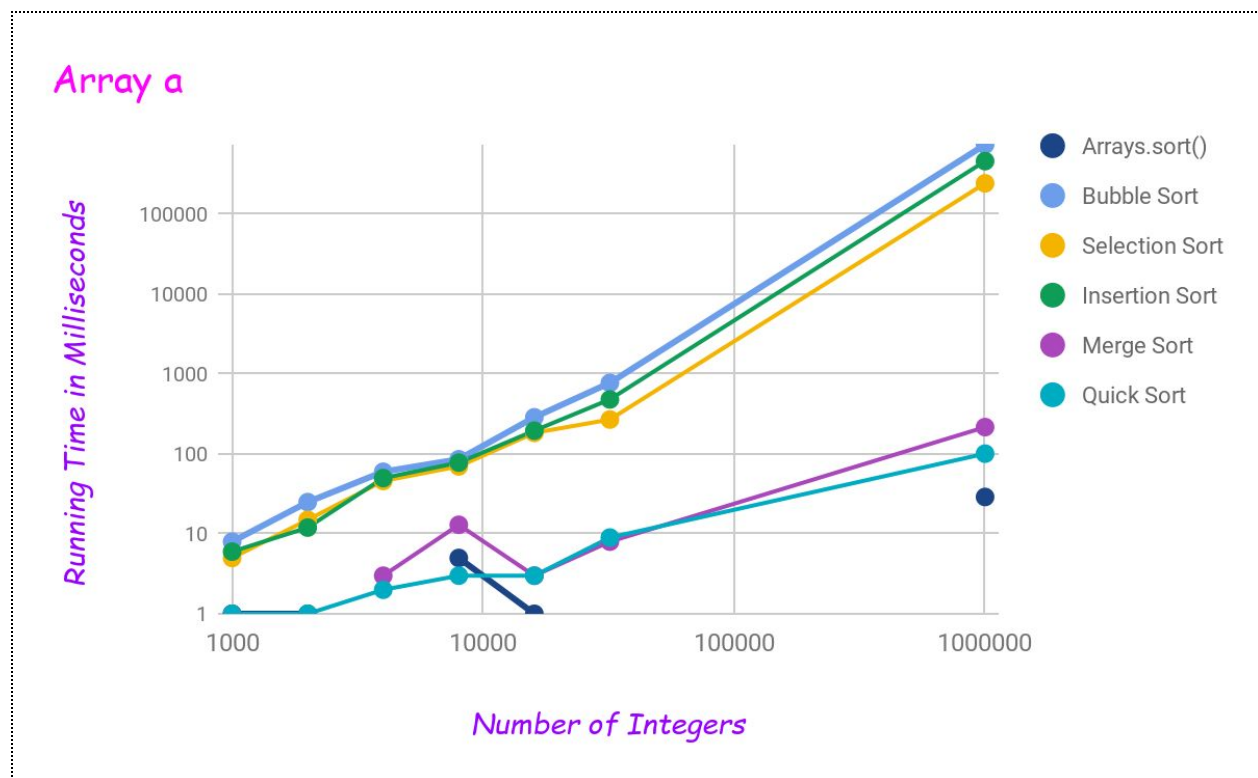
eyang13 and mumeora

Lab 6 Report

Highlighted values may take over 10 minutes

Array a Results

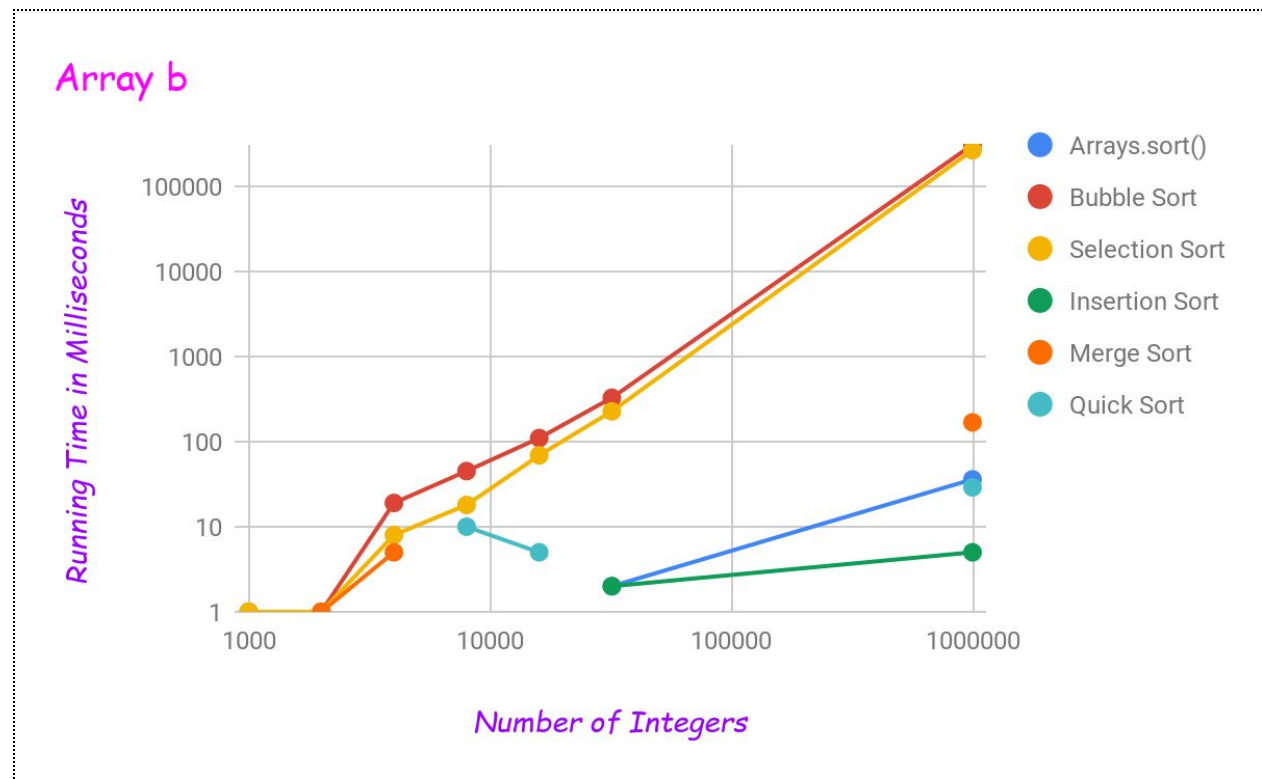
Sort Type	1K	2K	4K	8K	16K	32K	1M
Arrays.sort()	1	1	0	5	1	0	29
Bubble Sort	8	25	60	86	288	777	744010
Selection Sort	5	15	46	70	184	270	244392
Insertion Sort	6	12	50	78	196	482	463192
Merge Sort	1	0	3	13	3	8	217
Quick Sort	1	1	2	3	3	9	101



Lab 6 Report

Array b Results

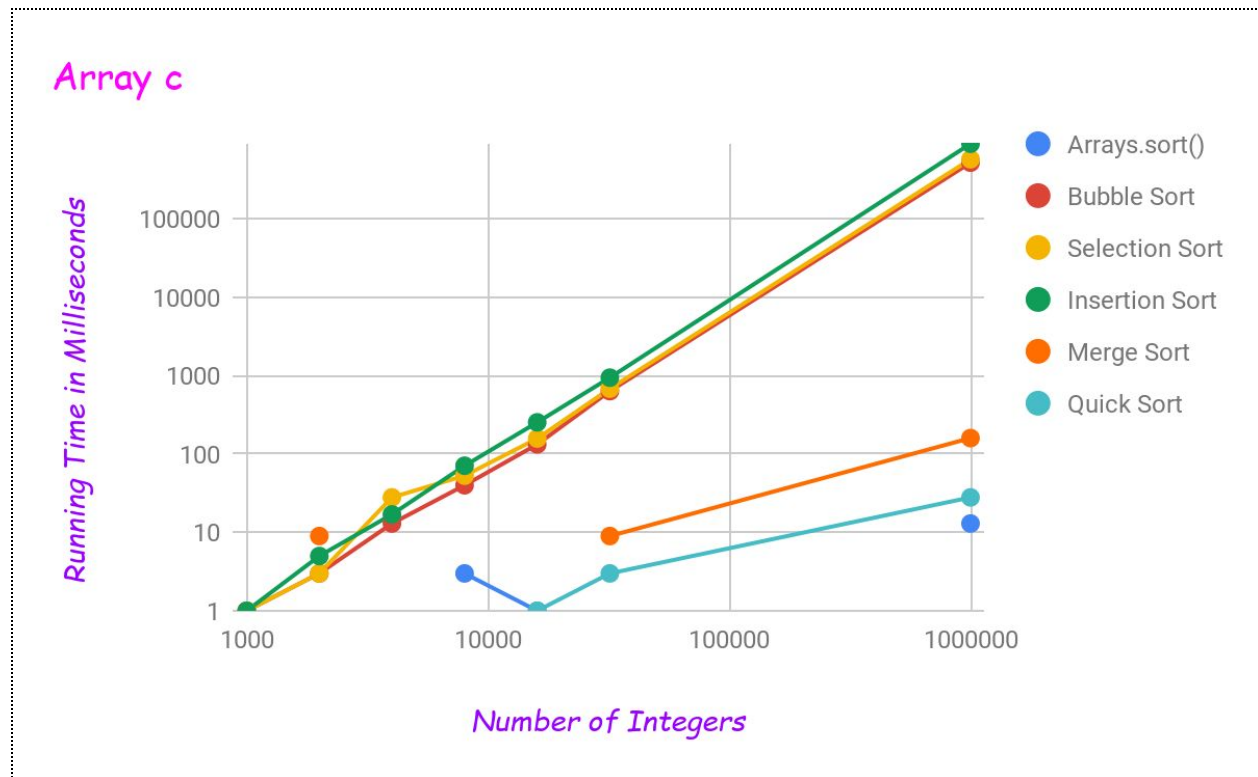
Sort Type	1K	2K	4K	8K	16K	32K	1M
Arrays.sort()	0	0	0	0	0	2	36
Bubble Sort	1	1	19	45	110	327	307563
Selection Sort	1	1	8	18	69	227	265035
Insertion Sort	0	0	0	0	0	2	5
Merge Sort	0	1	5	0	0	0	168
Quick Sort	0	0	0	10	5	0	29



Lab 6 Report

Array c Results

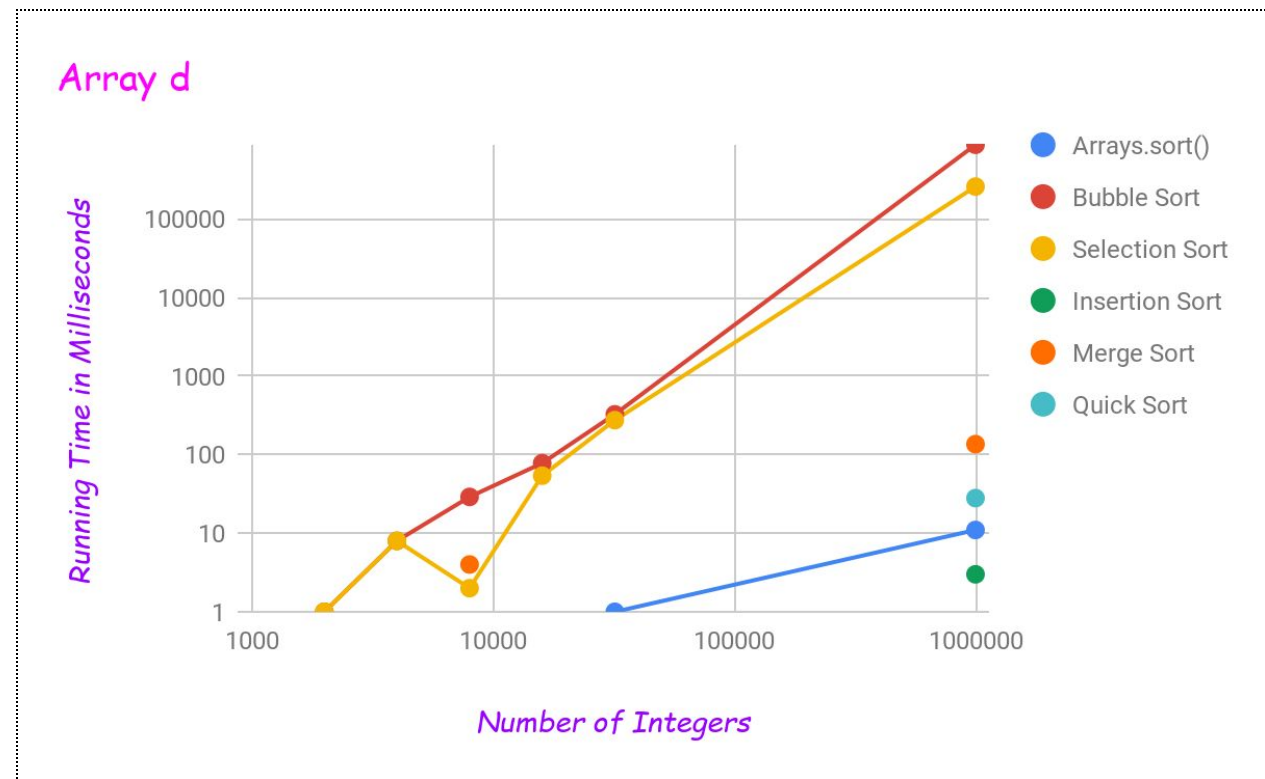
Sort Type	1K	2K	4K	8K	16K	32K	1M
Arrays.sort()	0	0	0	3	1	0	13
Bubble Sort	1	3	13	40	133	636	523751
Selection Sort	1	3	28	53	158	683	578992
Insertion Sort	1	5	17	71	254	945	912774
Merge Sort	0	9	0	0	0	9	160
Quick Sort	0.0	0.0	0	0	1	3	28



Lab 6 Report

Array d Results

Sort Type	1K	2K	4K	8K	16K	32K	1M
Arrays.sort()	0	0	0	0	0	1	11
Bubble Sort	0	1	8	29	78	326	879376
Selection Sort	0	1	8	2	54	275	258032
Insertion Sort	0	0	0	0	0	0	3
Merge Sort	0	0	0	4	0	0	136
Quick Sort	0	0	0	0	0	0	28



Lab 6 Report

1Kints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:03:45 PM)

Java Sort a	1.0	20190327_190345	mumeora & eyang13	1Kints.txt
Java Sort b	0.0	20190327_190345	mumeora & eyang13	1Kints.txt
Java Sort c	0.0	20190327_190345	mumeora & eyang13	1Kints.txt
Java Sort d	0.0	20190327_190345	mumeora & eyang13	1Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:04:53 PM)

Bubble Sort a	8.0	20190327_190453	mumeora & eyang13	1Kints.txt
Bubble Sort b	1.0	20190327_190453	mumeora & eyang13	1Kints.txt
Bubble Sort c	1.0	20190327_190453	mumeora & eyang13	1Kints.txt
Bubble Sort d	0.0	20190327_190453	mumeora & eyang13	1Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:05:48 PM)

Selection Sort a	5.0	20190327_190548	mumeora & eyang13	1Kints.txt
Selection Sort b	1.0	20190327_190548	mumeora & eyang13	1Kints.txt
Selection Sort c	1.0	20190327_190548	mumeora & eyang13	1Kints.txt
Selection Sort d	0.0	20190327_190548	mumeora & eyang13	1Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:06:41 PM)

Insertion Sort a	6.0	20190327_190641	mumeora & eyang13	1Kints.txt
Insertion Sort b	0.0	20190327_190641	mumeora & eyang13	1Kints.txt
Insertion Sort c	1.0	20190327_190641	mumeora & eyang13	1Kints.txt
Insertion Sort d	0.0	20190327_190641	mumeora & eyang13	1Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:08:47 PM)

Merge Sort a	1.0	20190327_190848	mumeora & eyang13	1Kints.txt
Merge Sort b	0.0	20190327_190848	mumeora & eyang13	1Kints.txt
Merge Sort c	0.0	20190327_190848	mumeora & eyang13	1Kints.txt
Merge Sort d	0.0	20190327_190848	mumeora & eyang13	1Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:10:40 PM)

Quick Sort a	1.0	20190327_191040	mumeora & eyang13	1Kints.txt
Quick Sort b	0.0	20190327_191040	mumeora & eyang13	1Kints.txt
Quick Sort c	0.0	20190327_191040	mumeora & eyang13	1Kints.txt
Quick Sort d	0.0	20190327_191040	mumeora & eyang13	1Kints.txt

Lab 6 Report

2Kints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:13:21 PM)

Java Sort a	1.0	20190327_191321	mumeora & eyang13	2Kints.txt
Java Sort b	0.0	20190327_191321	mumeora & eyang13	2Kints.txt
Java Sort c	0.0	20190327_191321	mumeora & eyang13	2Kints.txt
Java Sort d	0.0	20190327_191321	mumeora & eyang13	2Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:14:26 PM)

Bubble Sort a	25.0	20190327_191426	mumeora & eyang13	2Kints.txt
Bubble Sort b	1.0	20190327_191426	mumeora & eyang13	2Kints.txt
Bubble Sort c	3.0	20190327_191426	mumeora & eyang13	2Kints.txt
Bubble Sort d	1.0	20190327_191426	mumeora & eyang13	2Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:15:45 PM)

Selection Sort a	15.0	20190327_191545	mumeora & eyang13	2Kints.txt
Selection Sort b	1.0	20190327_191545	mumeora & eyang13	2Kints.txt
Selection Sort c	3.0	20190327_191545	mumeora & eyang13	2Kints.txt
Selection Sort d	1.0	20190327_191545	mumeora & eyang13	2Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:16:59 PM)

Insertion Sort a	12.0	20190327_191659	mumeora & eyang13	2Kints.txt
Insertion Sort b	0.0	20190327_191659	mumeora & eyang13	2Kints.txt
Insertion Sort c	5.0	20190327_191659	mumeora & eyang13	2Kints.txt
Insertion Sort d	0.0	20190327_191659	mumeora & eyang13	2Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:18:08 PM)

Merge Sort a	0.0	20190327_191808	mumeora & eyang13	2Kints.txt
Merge Sort b	1.0	20190327_191808	mumeora & eyang13	2Kints.txt
Merge Sort c	9.0	20190327_191808	mumeora & eyang13	2Kints.txt
Merge Sort d	0.0	20190327_191808	mumeora & eyang13	2Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:19:16 PM)

Quick Sort a	1.0	20190327_191916	mumeora & eyang13	2Kints.txt
Quick Sort b	0.0	20190327_191916	mumeora & eyang13	2Kints.txt
Quick Sort c	0.0	20190327_191916	mumeora & eyang13	2Kints.txt
Quick Sort d	0.0	20190327_191916	mumeora & eyang13	2Kints.txt

Lab 6 Report

4Kints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:21:33 PM)

Java Sort a	0.0	20190327_192133	mumeora & eyang13	4Kints.txt
Java Sort b	0.0	20190327_192133	mumeora & eyang13	4Kints.txt
Java Sort c	0.0	20190327_192133	mumeora & eyang13	4Kints.txt
Java Sort d	0.0	20190327_192133	mumeora & eyang13	4Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:22:26 PM)

Bubble Sort a	60.0	20190327_192226	mumeora & eyang13	4Kints.txt
Bubble Sort b	19.0	20190327_192226	mumeora & eyang13	4Kints.txt
Bubble Sort c	13.0	20190327_192226	mumeora & eyang13	4Kints.txt
Bubble Sort d	8.0	20190327_192226	mumeora & eyang13	4Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:23:34 PM)

Selection Sort a	46.0	20190327_192335	mumeora & eyang13	4Kints.txt
Selection Sort b	8.0	20190327_192335	mumeora & eyang13	4Kints.txt
Selection Sort c	28.0	20190327_192335	mumeora & eyang13	4Kints.txt
Selection Sort d	8.0	20190327_192335	mumeora & eyang13	4Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:24:47 PM)

Insertion Sort a	50.0	20190327_192447	mumeora & eyang13	4Kints.txt
Insertion Sort b	0.0	20190327_192447	mumeora & eyang13	4Kints.txt
Insertion Sort c	17.0	20190327_192447	mumeora & eyang13	4Kints.txt
Insertion Sort d	0.0	20190327_192447	mumeora & eyang13	4Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:26:55 PM)

Merge Sort a	3.0	20190327_192655	mumeora & eyang13	4Kints.txt
Merge Sort b	5.0	20190327_192655	mumeora & eyang13	4Kints.txt
Merge Sort c	0.0	20190327_192655	mumeora & eyang13	4Kints.txt
Merge Sort d	0.0	20190327_192655	mumeora & eyang13	4Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:28:03 PM)

Quick Sort a	2.0	20190327_192803	mumeora & eyang13	4Kints.txt
Quick Sort b	0.0	20190327_192803	mumeora & eyang13	4Kints.txt
Quick Sort c	0.0	20190327_192803	mumeora & eyang13	4Kints.txt
Quick Sort d	0.0	20190327_192803	mumeora & eyang13	4Kints.txt

Lab 6 Report

8Kints.txt:

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:30:24 PM)
Java Sort a      5.0    20190327_193025  mumeora & eyang13  8Kints.txt
Java Sort b      0.0    20190327_193025  mumeora & eyang13  8Kints.txt
Java Sort c      3.0    20190327_193025  mumeora & eyang13  8Kints.txt
Java Sort d      0.0    20190327_193025  mumeora & eyang13  8Kints.txt
```

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:32:24 PM)
Bubble Sort a    86.0    20190327_193225  mumeora & eyang13  8Kints.txt
Bubble Sort b    45.0    20190327_193225  mumeora & eyang13  8Kints.txt
Bubble Sort c    40.0    20190327_193225  mumeora & eyang13  8Kints.txt
Bubble Sort d    29.0    20190327_193225  mumeora & eyang13  8Kints.txt
```

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:33:30 PM)
Selection Sort a  70.0    20190327_193330  mumeora & eyang13  8Kints.txt
Selection Sort b  18.0    20190327_193330  mumeora & eyang13  8Kints.txt
Selection Sort c  53.0    20190327_193330  mumeora & eyang13  8Kints.txt
Selection Sort d   2.0    20190327_193330  mumeora & eyang13  8Kints.txt
```

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:34:20 PM)
Insertion Sort a  78.0    20190327_193421  mumeora & eyang13  8Kints.txt
Insertion Sort b   0.0    20190327_193421  mumeora & eyang13  8Kints.txt
Insertion Sort c  71.0    20190327_193421  mumeora & eyang13  8Kints.txt
Insertion Sort d   0.0    20190327_193421  mumeora & eyang13  8Kints.txt
```

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:36:59 PM)
Merge Sort a     13.0    20190327_193659  mumeora & eyang13  8Kints.txt
Merge Sort b      0.0    20190327_193659  mumeora & eyang13  8Kints.txt
Merge Sort c      0.0    20190327_193659  mumeora & eyang13  8Kints.txt
Merge Sort d      4.0    20190327_193659  mumeora & eyang13  8Kints.txt
```

```
<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:38:10 PM)
Quick Sort a      3.0    20190327_193811  mumeora & eyang13  8Kints.txt
Quick Sort b     10.0    20190327_193811  mumeora & eyang13  8Kints.txt
Quick Sort c      0.0    20190327_193811  mumeora & eyang13  8Kints.txt
Quick Sort d      0.0    20190327_193811  mumeora & eyang13  8Kints.txt
```


Lab 6 Report

16Kints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:41:18 PM)

Java Sort a	1.0	20190327_194118	mumeora & eyang13	16Kints.txt
Java Sort b	0.0	20190327_194118	mumeora & eyang13	16Kints.txt
Java Sort c	1.0	20190327_194118	mumeora & eyang13	16Kints.txt
Java Sort d	0.0	20190327_194118	mumeora & eyang13	16Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:42:07 PM)

Bubble Sort a	288.0	20190327_194208	mumeora & eyang13	16Kints.txt
Bubble Sort b	110.0	20190327_194208	mumeora & eyang13	16Kints.txt
Bubble Sort c	133.0	20190327_194208	mumeora & eyang13	16Kints.txt
Bubble Sort d	78.0	20190327_194208	mumeora & eyang13	16Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:43:22 PM)

Selection Sort a	184.0	20190327_194323	mumeora & eyang13	16Kints.txt
Selection Sort b	69.0	20190327_194323	mumeora & eyang13	16Kints.txt
Selection Sort c	158.0	20190327_194323	mumeora & eyang13	16Kints.txt
Selection Sort d	54.0	20190327_194323	mumeora & eyang13	16Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:44:22 PM)

Insertion Sort a	196.0	20190327_194423	mumeora & eyang13	16Kints.txt
Insertion Sort b	0.0	20190327_194423	mumeora & eyang13	16Kints.txt
Insertion Sort c	254.0	20190327_194423	mumeora & eyang13	16Kints.txt
Insertion Sort d	0.0	20190327_194423	mumeora & eyang13	16Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:46:11 PM)

Merge Sort a	3.0	20190327_194611	mumeora & eyang13	16Kints.txt
Merge Sort b	0.0	20190327_194611	mumeora & eyang13	16Kints.txt
Merge Sort c	0.0	20190327_194611	mumeora & eyang13	16Kints.txt
Merge Sort d	0.0	20190327_194611	mumeora & eyang13	16Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:47:09 PM)

Quick Sort a	3.0	20190327_194709	mumeora & eyang13	16Kints.txt
Quick Sort b	5.0	20190327_194709	mumeora & eyang13	16Kints.txt
Quick Sort c	1.0	20190327_194709	mumeora & eyang13	16Kints.txt
Quick Sort d	0.0	20190327_194709	mumeora & eyang13	16Kints.txt

Lab 6 Report

32Kints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:48:08 PM)

Java Sort a	0.0	20190327_194809	mumeora & eyang13	32Kints.txt
Java Sort b	2.0	20190327_194809	mumeora & eyang13	32Kints.txt
Java Sort c	0.0	20190327_194809	mumeora & eyang13	32Kints.txt
Java Sort d	1.0	20190327_194809	mumeora & eyang13	32Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:49:29 PM)

Bubble Sort a	777.0	20190327_194930	mumeora & eyang13	32Kints.txt
Bubble Sort b	327.0	20190327_194930	mumeora & eyang13	32Kints.txt
Bubble Sort c	636.0	20190327_194931	mumeora & eyang13	32Kints.txt
Bubble Sort d	326.0	20190327_194931	mumeora & eyang13	32Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:50:36 PM)

Selection Sort a	270.0	20190327_195036	mumeora & eyang13	32Kints.txt
Selection Sort b	227.0	20190327_195037	mumeora & eyang13	32Kints.txt
Selection Sort c	683.0	20190327_195037	mumeora & eyang13	32Kints.txt
Selection Sort d	275.0	20190327_195038	mumeora & eyang13	32Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:51:38 PM)

Insertion Sort a	482.0	20190327_195138	mumeora & eyang13	32Kints.txt
Insertion Sort b	2.0	20190327_195138	mumeora & eyang13	32Kints.txt
Insertion Sort c	945.0	20190327_195139	mumeora & eyang13	32Kints.txt
Insertion Sort d	0.0	20190327_195139	mumeora & eyang13	32Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:52:49 PM)

Merge Sort a	8.0	20190327_195249	mumeora & eyang13	32Kints.txt
Merge Sort b	0.0	20190327_195249	mumeora & eyang13	32Kints.txt
Merge Sort c	9.0	20190327_195249	mumeora & eyang13	32Kints.txt
Merge Sort d	0.0	20190327_195249	mumeora & eyang13	32Kints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:53:40 PM)

Quick Sort a	9.0	20190327_195341	mumeora & eyang13	32Kints.txt
Quick Sort b	0.0	20190327_195341	mumeora & eyang13	32Kints.txt
Quick Sort c	3.0	20190327_195341	mumeora & eyang13	32Kints.txt
Quick Sort d	0.0	20190327_195341	mumeora & eyang13	32Kints.txt

Lab 6 Report

1Mints.txt:

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 7:55:09 PM)

Java Sort a	29.0	20190327_195511	mumeora & eyang13	1Mints.txt
Java Sort b	36.0	20190327_195512	mumeora & eyang13	1Mints.txt
Java Sort c	13.0	20190327_195512	mumeora & eyang13	1Mints.txt
Java Sort d	11.0	20190327_195512	mumeora & eyang13	1Mints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 9:15:15 PM)

Bubble Sort a	744010.0	20190327_212740	mumeora & eyang13	1Mints.txt
Bubble Sort b	307563.0	20190327_213248	mumeora & eyang13	1Mints.txt
Bubble Sort c	523751.0	20190327_214132	mumeora & eyang13	1Mints.txt
Bubble Sort d	879376.0	20190327_215611	mumeora & eyang13	1Mints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 10:01:58 PM)

Selection Sort a	244392.0	20190327_220604	mumeora & eyang13	1Mints.txt
Selection Sort b	265035.0	20190327_221029	mumeora & eyang13	1Mints.txt
Selection Sort c	578992.0	20190327_222008	mumeora & eyang13	1Mints.txt
Selection Sort d	258032.0	20190327_222427	mumeora & eyang13	1Mints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 10:55:19 PM)

Insertion Sort a	463192.0	20190327_230304	mumeora & eyang13	1Mints.txt
Insertion Sort b	5.0	20190327_230304	mumeora & eyang13	1Mints.txt
Insertion Sort c	912774.0	20190327_231817	mumeora & eyang13	1Mints.txt
Insertion Sort d	3.0	20190327_231817	mumeora & eyang13	1Mints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 11:30:16 PM)

Merge Sort a	217.0	20190327_233018	mumeora & eyang13	1Mints.txt
Merge Sort b	168.0	20190327_233019	mumeora & eyang13	1Mints.txt
Merge Sort c	160.0	20190327_233019	mumeora & eyang13	1Mints.txt
Merge Sort d	136.0	20190327_233020	mumeora & eyang13	1Mints.txt

<terminated> MainClass (1) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Mar 27, 2019, 11:32:07 PM)

Quick Sort a	101.0	20190327_233209	mumeora & eyang13	1Mints.txt
Quick Sort b	29.0	20190327_233209	mumeora & eyang13	1Mints.txt
Quick Sort c	28.0	20190327_233210	mumeora & eyang13	1Mints.txt
Quick Sort d	28.0	20190327_233210	mumeora & eyang13	1Mints.txt