

```

ert547@fox01:~/working$ cd java
ert547@fox01:~/working/java$ java --version
Unrecognized option: --version
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
ert547@fox01:~/working/java$ java -version
java version "1.7.0_181"
OpenJDK Runtime Environment (IcedTea 2.6.14) (7u181-2.6.14-0ubuntu0.3)
OpenJDK 64-Bit Server VM (build 24.181-b01, mixed mode)
ert547@fox01:~/working/java$ javac MysteryRuntime.java ArrayAlgs.java functionRuntimes.java
ert547@fox01:~/working/java$ java MysteryRuntime.java
Error: Could not find or load main class MysteryRuntime.java
ert547@fox01:~/working/java$ java MysteryRuntime

```

Insertion Sort

Test Size	Test #0	Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Test #7	Test #8
Test #									
1000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002									
2000	0.003	0.003	0.004	0.003	0.003	0.004	0.003	0.004	0.003
0.004									
4000	0.009	0.008	0.011	0.009	0.008	0.008	0.008	0.008	0.008
0.009									
8000	0.026	0.026	0.025	0.026	0.026	0.026	0.026	0.026	0.026
0.025									
16000	0.093	0.096	0.092	0.092	0.092	0.092	0.093	0.092	0.091
0.091									

quicksort (uses insertion sort when sorting <30 numbers)

Test Size	Test #0	Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Test #7	Test #8
Test #									
1000	0.010	0.005	0.003	0.003	0.002	0.002	0.002	0.002	0.002
0.001									
2000	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002
0.003									
4000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.011	0.004
0.004									
8000	0.007	0.008	0.008	0.008	0.007	0.007	0.009	0.013	0.007
0.007									
16000	0.014	0.015	0.015	0.016	0.015	0.015	0.014	0.015	0.025
0.025									

Mystery 1

Test Size	Test #0	Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Test #7	Average
5000	0.019	0.019	0.006	0.005	0.005	0.005	0.005	0.005	0.009
10000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.013	0.010
20000	0.019	0.017	0.018	0.017	0.020	0.017	0.018	0.017	0.018
40000	0.039	0.035	0.035	0.038	0.034	0.038	0.035	0.037	0.036

Mystery 2

Test Size	Test #0	Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Test #7	Average
5000	0.019	0.033	0.018	0.018	0.019	0.018	0.019	0.019	0.020
10000	0.064	0.066	0.066	0.068	0.064	0.064	0.065	0.064	0.065
20000	0.236	0.247	0.245	0.236	0.237	0.238	0.251	0.235	0.241
40000	0.899	0.937	0.906	0.900	0.927	0.931	0.926	0.932	0.920

Mystery 3

Test Size	Test #0	Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Test #7	Average
5000	0.032	0.031	0.031	0.031	0.030	0.031	0.031	0.030	0.031
10000	0.068	0.067	0.068	0.068	0.068	0.068	0.069	0.068	0.068
20000	0.152	0.152	0.153	0.151	0.153	0.153	0.152	0.154	0.153
40000	0.342	0.336	0.341	0.340	0.337	0.340	0.342	0.336	0.339

```
ert547@fox01:~/working/java$
```