BILKENT UNIVERSITY

COMPUTER ENGINEERING

CS224 – COMPUTER ORGANIZATION

LAB 5 PRELIMINARY REPORT

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f)

The fill time is O(n) time complexity, which is faster than the fastest sorting algorithm. Thus, we wait for sorting of the matrixs.

g)

i) 0.448 seconds

ii) 0.551 seconds

h)

a) 0.421 seconds

b) 0.512 seconds

i)

|  |  |  |
| --- | --- | --- |
| n (=size) | Fill time (in seconds) | Sort time (in seconds) |
| 50 | 0.179 | 0.123 |
| 100 | 0.421 | 0.512 |
| 200 | 0.889 | 0.779 |
| 400 | 1.921 | 2.276 |

j) using this tool increased my runtime by an average of 1.7 times.