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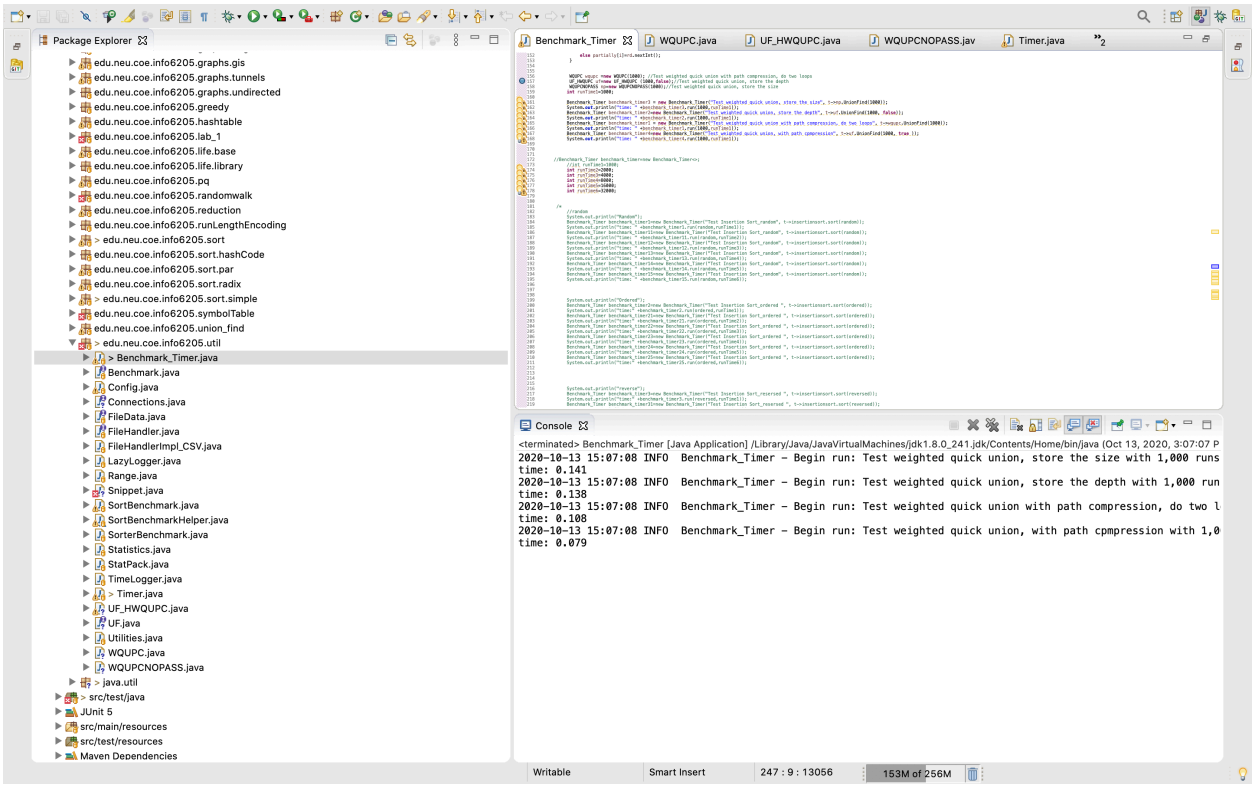
INFO 6205

Program Structures & Algorithms

Fall 2020

Assignment No 4

Output



I implemented for types of weighted quick union
1) Weighted quick union (Store the size)
2) Weighted quick union (Store the depth)
3) Weighted quick union with path compression
4) Weighted quick union with two path compression
I conclude that for the weighted quick union the runtime of whether storing the size or the depth are roughly the same.
The runtime of weighted quick union with two path compression is faster than weighted quick union with path compression.