**INFO 6205**

**Program Structures & Algorithms**

**Fall 2020**

**Assignment No 4**

* **Task**
* For weighted quick union, store the depth rather than the size;
* For weighted quick union with path compression, do simpler one-pass variant (path-halving) alternates, make every other node in path point to its grandparent.

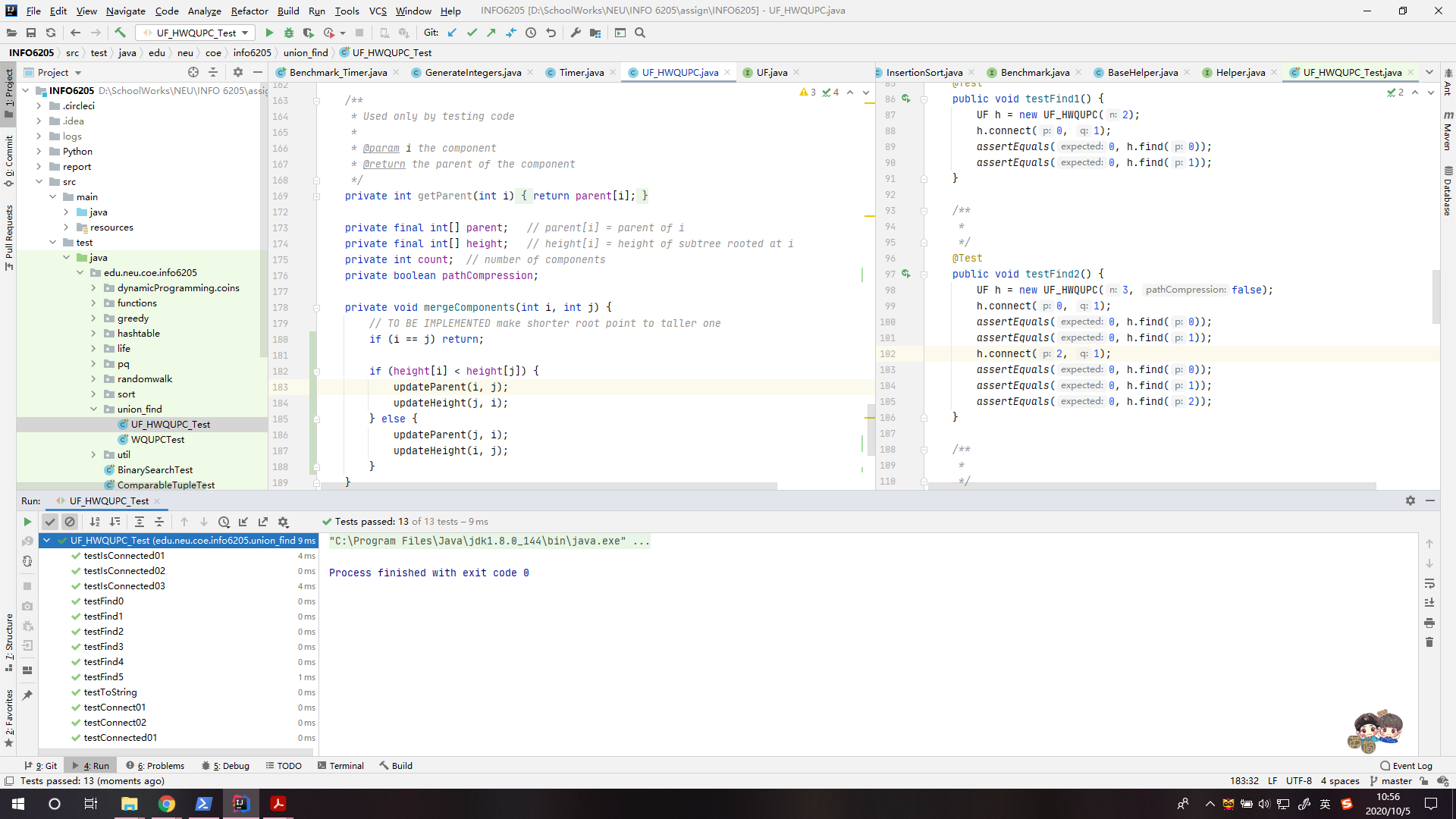
For both of these, code the alternative and benchmark it against the implementation in the repository. You have all of that available from a previous assignment.

If you can explain why alternative #1 is unnecessary to be benchmarked, you may skip benchmarking that one.

* **Output**
* **Conclusion**

Number M of connections generated to a set of N objects is about N1.16 = M

* **Evidence to support**
* **Screenshot of Unit test passing**

UF\_HWQUPC\_Test: