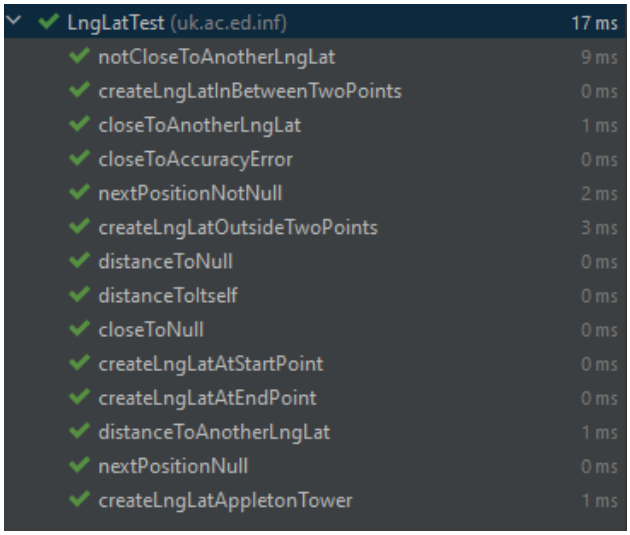
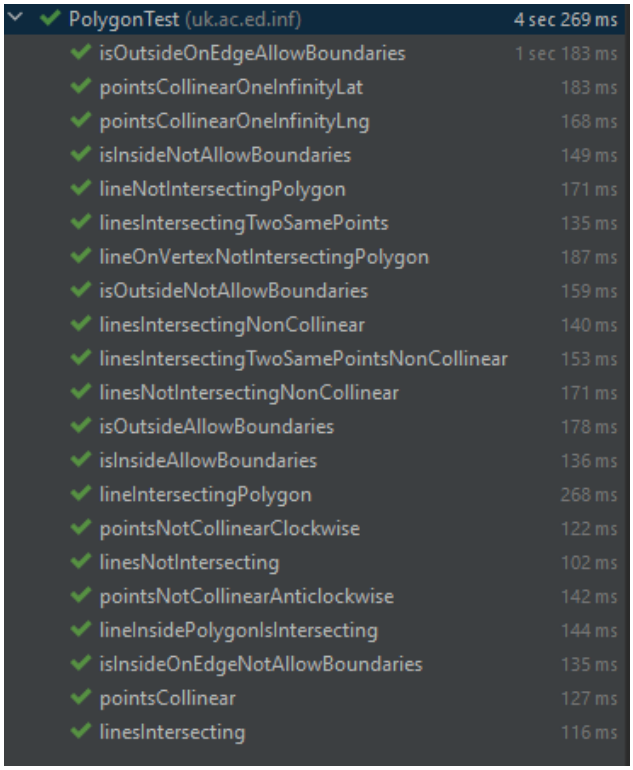
Testing R1.1 – The drone does not fly into no-fly zones:

Unit test (LngLat):

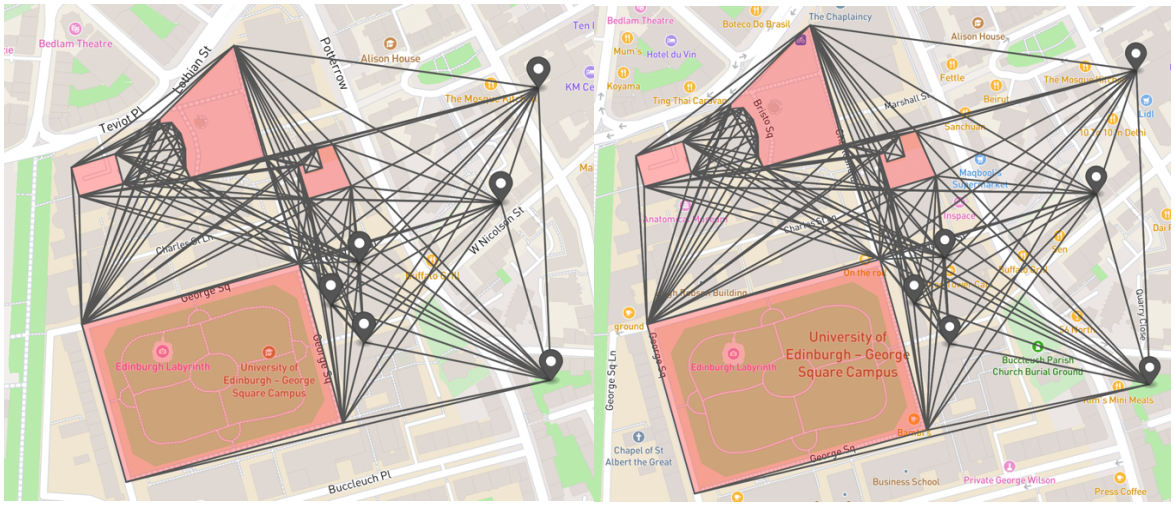


Integration test (Polygon):



Integration test (Visibility graph generation):

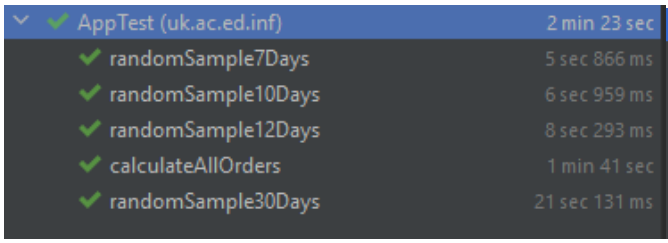
Result (Left – JGraphT, Right – own graph):



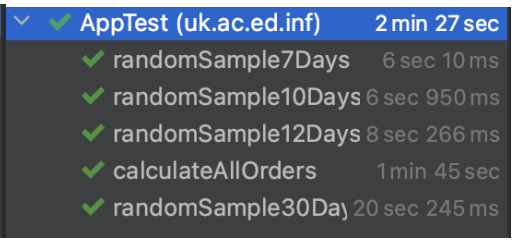
R1.2 - The path to the location has the shortest distance:

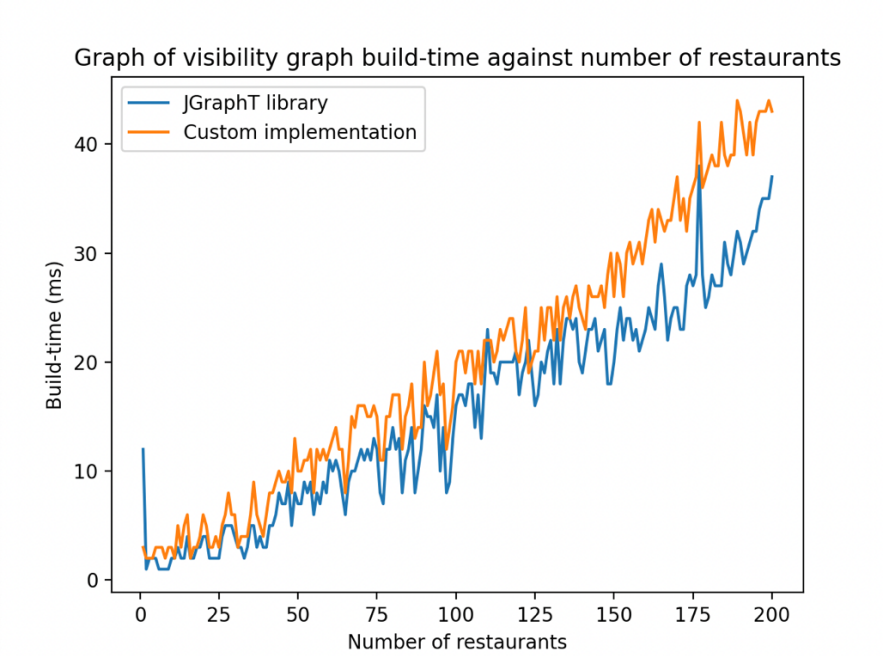
R2 – The system should take at most 60 seconds to find the shortest paths for all orders in each day:

Result: (Windows)



Result: (Mac)





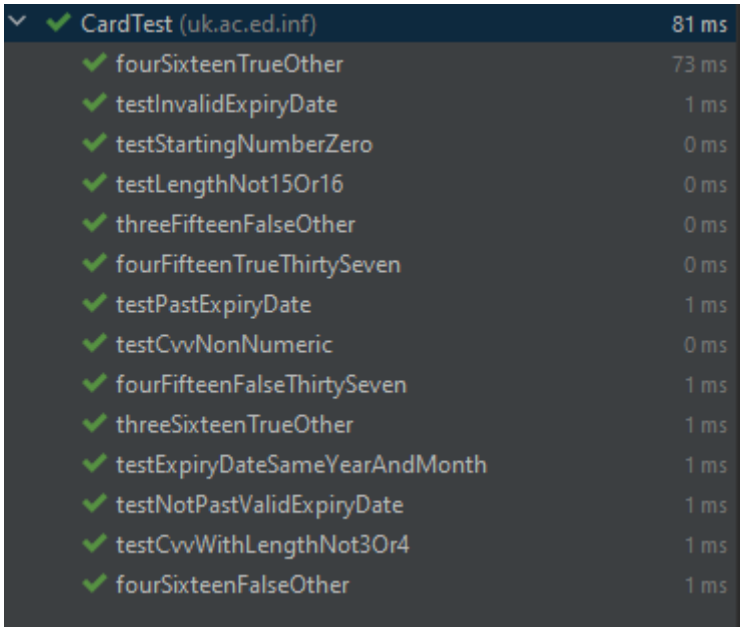
R3 - The system should be able to classify orders based on their attributes:

Unit testing (Card)

Failed tests:

- testExpiryDateSameYearAndMonth:
    - Did not consider when expiry month was the same as current month

Result:



Component testing (Card + OrderChecker)

Failed tests:

- orderPizzaWithInvalidOrderNumer
    - Did not check hexadecimal values – tested for only 8-character order numbers

Result: