

A3 Post Mortem

Question 1

- Many students did not give any explanation of their algorithm and/or did not justify correctness

Question 2

- This question was generally well done
- In (2b) some students did not justify why the mean will be close to position $\frac{n}{2}$.
- For (2c) some students gave that an array where all elements are the same. This actually produces the best possible runtime rather than the worst as discussed in Tutorial 5 Question 1.

Question 3

- Many students sorted the blocks using quick-sort which has worst case time complexity $\Theta(n^2)$
- Some students did not justify correctness or the runtime of their algorithm

Question 4

- This question was generally well done
- Some students made calculation errors in (4c).

Question 5

- This question was generally well done

Question 6

- In (6a) a number of student solutions had off by one errors.
- For (6b) some students only considered the case where the i^{th} successor was in the right subtree.