Report for Algorithms & Analysis Assignment 1

(Members of your team)

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| We (I) certify that this is all our (my) own original work. If we (I) took any parts from elsewhere, then they were non-essential parts of the assignment, and they are clearly attributed in my submission. We (I) will show we (I) agree to this honor code by typing "Yes": Yes. |

**Experimental Setup**

Data Scenarios – what were the ratios you used for the 3 scenarios? Why did you select these?

Sizes of data (graphs; graph density) – why did you select these sizes to test? E.g., [Sample text] We used these sizes because we this size (X) allow us to contrast the performance for Y operation for the A and B data structures.

Generation of scenarios – how did you decide to generate the scenarios? Briefly describe.

Timing - How did you perform the timing? How many tests did you perform and average over for each generated data set?

**Evaluation**

Scenario 1

[Sample text] We found that … (see Figure 1). We hypothesise the reason for this is that…, but…. Compare this with the incidence matrix representation … (Figure 2).

Scenario 2

[Sample text] As we varied the densities of the, we found ...

**Recommendation**

For different data scenarios (pick a representative sample from your analysis), which data structures do you recommend to use for which cases?