**CS2030S RECITATION 08**

**Q1**

1. In ArrayList, all the primes between 10000 to 20000 are evaluated eagerly so even if we only wanted to find the 5th prime number, the subsequent prime numbers are also evaluated ie 5th, 6th, .., ith where 10000 <= ith prime <= 20000 and 20000 < (i+1)th prime

In LazyList, the programme only evaluates up till the 5th Prime between 10000 and 20000, and subsequent evaluations are not made thus lesser isPrime calls

1. For LL: depends on k

For AL: depends on interval

1. Not possible. AL iterates through all the values in the interval and tests if each value isPrime while LL will stop once the kth isPrime returns true to return the kth prime number.

**Q2**

1. See code
2. I don’t know how to run it…
3. See code
4. Why cannot infer?
5. Can’t run it if d is wrong…

**Q3 [LINKED TO Q2 PART D AND E…]**