A1: The number of ticks didn’t depend on the value of the n because it is written after the n count without any variables assigned related to n.

A2: The data says regardless of time, it will take the same amount of time to execute the code, which is wrong.

A3: No it doesn’t because the number of ticks didn’t account for the amount of time it required for the array to initialize.

A4: Yes it does as the ticker is affected by the size of the n being counted.

A5: I expect the Arabic number to finish first. 2 stokes for 76, 76 strokes for tally. Decimals are better for larger numbers. Tally is better for smaller number.

A6: Formula for the number of marks is Power of 2. log2/log10

A7: Decimal is most efficient. Difference between linear and logarithmic is greater than logarithmic and logarithmic.

C1: Quadratic, y = n^2

C2: The increment doubles each time, so the amount of space doubles.

C3: Doubling has linear cost. It depends on the n.

D1: Big Theta (n^2)

D2: 2^(k + 1) -1, 2n – 1. Yes, 2n-1 is linear.