Question 8 – CS 240 HW#1

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a) Frequency count: F(N^3)
Big Oh runtime complexity: $O(N^3)$

b) Frequency count: F($N^2 \cdot log_2(N)$)
Big Oh runtime complexity: $O(N^2 \cdot log_2(N))$

c) Frequency count: F($(log_2(N) \cdot 101 \cdot log_2(N)) + log_2(N)$)
Big Oh runtime complexity: $O(log_2(N))$

d) Frequency count: F($log_2(100) \cdot log_2(N) \cdot log_2(N)$)
Big Oh runtime complexity: $O([log_2(N)]^2)$