QotD6

1. As the load factor, alpha, approaches 1, the time for insert and search of a separate chaining hash table approaches
   (1 point)

   ✓ A. Theta(1)

   B. Theta(lgN)

   C. Theta(N)

   D. Theta(N^2)

2. Given a search for a pattern string, P, of length M, within a text string, A, of length N, the brute force search algorithm discussed in lecture will have the following (respectively) for the **normal case** and the **worst case**
   (1 point)

   A. Theta(N/M), Theta(N)

   B. Theta(N), Theta(N)

   ✓ C. Theta(N), Theta(NM)

D. Theta(NM), Theta(NM)