Module - 17 (copy)   Score: _____

1. **With suffix arrays, we can solve both the suffix sorting and longest repeated substring problems in linear time.**

   (A) True

   (B) False

2. **The time complexity of this code snippet?**
    int N = s.length();
    for (int i = 0; i < N; i++)
    rotation[i] = s.substring(i, N) + s.substring(0, i);

   (A) Linear

   (B) Quadratic

   (C) Logarithmic

   (D) Linearthmic

3. **If space is available, R-way tries provide the fastest search, essentially completing the job with a constant number of character compares.**

   (A) True

   (B) False

4. **if you can afford the space, trie performance is difficult to beat.**

   (A) True

   (B) False

5. **Knuth-Morris-Pratt is guaranteed linear-time with a backup in the input.**

   (A) True

   (B) False

6. **The Monte Carlo version of Rabin-Karp substring search is linear-time and extremely likely to be correct, and the Las Vegas version of Rabin-Karp substring search is correct and extremely likely to be linear-time.**

   (A) True

   (B) False

7. **The best case for MSD string sorting is when all keys are equal.**

   (A) True

   (B) False

8. LSD is not a stable sort.

A True

B False