DSA Exercise 2: E-commerce Platform Search Function

Output:

A screenshot of a computer

AI-generated content may be incorrect.

**Analysis:**

1. Compare the time complexity of linear and binary search algorithms.
   * The time complexity of linear search algorithm is O(N)
   * The time complexity of Binary search algorithm is O(log N)
2. Discuss which algorithm is more suitable for your platform and why.
   * Binary search algorithm is a more suitable algorithm for this use-case as it has a faster search time and is most cases will return the result faster. This reduces the computational load whenever the binary search function Is called.