

Woong Wen Tat (1002323)

Banker's Algorithm Complexity Analysis

The complexity of the banker's algorithm is $O(n^2 * m)$ where n is the number of customers and m the number of resource. During the checkSafe step, the algorithm will loop through each customer and to loop through each customer, the algorithm will search through the customer list so the complexity is $O(n^2)$. However, to check whether the resources are all enough, the algorithm will loop through the resources in $O(m)$ complexity. Hence, the total complexity is $O(n^2 * m)$.