

DEADLINE N PROBLEM USING DISJOINT SET

Without including sorting into time complexity we can calculate BIG-O as $O(n + \text{maxDeadline})$ where n represents number of jobs.

Since the program iterates through the jobs n times, finding *maxdeadline* is found by iterating through the data set n times while initializing disjoint data set iterates *maxDeadline* times.

So we can calculate it as Big-O = $O(n) + O(n) + O(\text{maxdeadline}) = O(n + \text{maxdeadline})$