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import java.util.*;

class Job {
    String id;
    int deadline;
    int profit;

    Job(String id, int deadline, int profit) {
        this.id = id;
        this.deadline = deadline;
        this.profit = profit;
    }
}

public class JobSequencing {

    public static void jobSequencingWithDeadline(Job[] jobs) {
        // Sort jobs by profit in descending order
        Arrays.sort(jobs, (a, b) -> b.profit - a.profit);

        // Find max deadline
        int maxDeadline = 0;
        for (Job job : jobs) {
            if (job.deadline > maxDeadline)
                maxDeadline = job.deadline;
        }

        // Time slots array
        String[] result = new String[maxDeadline + 1];
        boolean[] slot = new boolean[maxDeadline + 1];

        int totalProfit = 0;

        for (Job job : jobs) {
            for (int j = job.deadline; j > 0; j--) {
                if (!slot[j]) {
                    slot[j] = true;
                    result[j] = job.id;
                    totalProfit += job.profit;
                    break;
                }
            }
        }
    }
}

```

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// Print results
System.out.println("Available Jobs:");
System.out.println("Job\tDeadline\tProfit");
for (Job job : jobs) {
    System.out.println(job.id + "\t" + job.deadline + "\t\t" + job.profit);
}

System.out.println("\nScheduled Jobs:");
for (int i = 1; i <= maxDeadline; i++) {
    if (result[i] != null) {
        System.out.print(result[i] + " ");
    }
}

System.out.println("\nTotal Max Profit: " + totalProfit);
}

public static void main(String[] args) {
    Job[] jobs = {
        new Job("J1",2, 100),
        new Job("J2", 1, 19),
        new Job("J3", 2, 27),
        new Job("J4", 1, 25),
        new Job("J5", 3, 15)
    };

    jobSequencingWithDeadline(jobs);
}
}

```