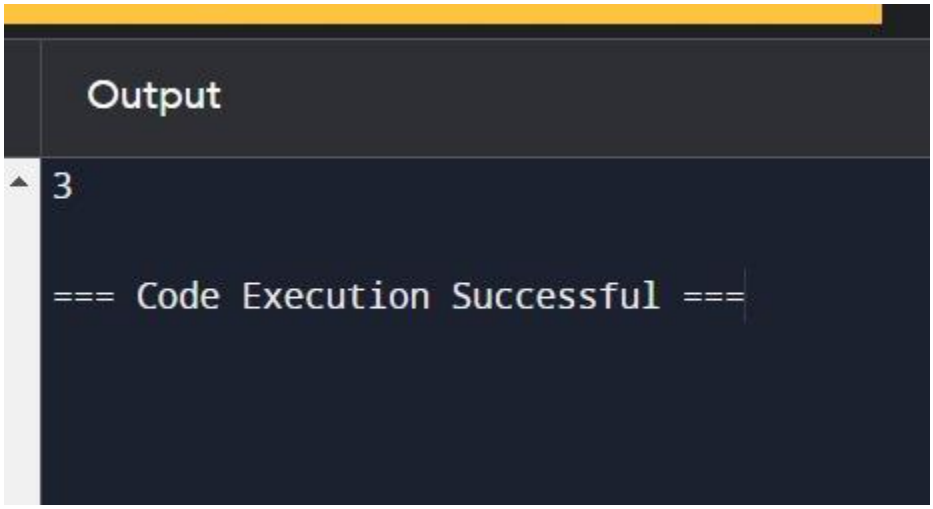
196. You are given an integer array jobs, where jobs[i] is the amount of time it takes to complete the ith job. There are k workers that you can assign jobs to. Each job should be assigned to exactly one worker. The working time of a worker is the sum of the time it takes to complete all jobs assigned to them. Your goal is to devise an optimal assignment such that the maximum working time of any worker is minimized. Return the minimum possible maximum working time of any assignment.

Program:

```
def min_max_working_time(jobs, k):
    def is_valid(limit):
        workers = [0] * k
        if backtrack(0, jobs, workers, limit):
            return True
        return False
    def backtrack(idx, jobs, workers, limit):
        if idx == len(jobs):
            return True
 job = jobs[idx]
        for i in range(k):
            if workers[i] + job <= limit:
                workers[i] += job
                if backtrack(idx + 1, jobs, workers, limit):
                    return True
                workers[i] -= job
                if workers[i] == 0:
                    break
        return False
    jobs.sort(reverse=True)
    left, right = max(jobs), sum(jobs)
    while left < right:
```

```
        mid = left + (right - left) // 2
        if is_valid(mid):
            right = mid
        else:
            left = mid + 1
    return left
# Example
jobs1 = [3, 2, 3]
k1 = 3
print(min_max_working_time(jobs1, k1))
```

Output:



Time complexity: O(nlog(total job time)),