

93. CONTAINER LOADING

PROGRAM:

```
def load_containers(items, container_capacity):
    containers = []
    current_container = []
    items.sort(reverse=True) # Sort items in descending order
    for item in items:
        if sum(current_container) + item <= container_capacity:
            current_container.append(item)
        else:
            containers.append(current_container)
            current_container = [item]
    containers.append(current_container) # Add the last container
    return containers
items = [10, 5, 3, 7, 8, 4]
container_capacity = 10
loaded_containers = load_containers(items, container_capacity)
```

```
print(loaded_containers)
```

Output:

```
[[10], [8], [7], [5, 4], [3]]
```

```
=== Code Execution Successful ===
```

Time complexity: $O(n \log n)$