

94. Container Loading

Code:

```
def container_loading(weights, values, max_weight):
    n = len(weights)
    dp = [0] * (max_weight + 1)
    for i in range(n):
        for w in range(max_weight, weights[i] - 1, -1):
            dp[w] = max(dp[w], dp[w - weights[i]] + values[i])

    return dp[max_weight]
weights = [2, 3, 4, 5]
values = [3, 4, 5, 6]
max_weight = 5
print(f"Maximum value in the container: {container_loading(weights, values, max_weight)}")
```

Output:

```
Maximum value in the container: 7
```

Time Complexity:

- $T(n) = O(n * w)$