6. Container Loading ,

Code:

```
def container_loading(weights, values, capacity):
    ratio = [(values[i] / weights[i], weights[i], values[i]) for i in range(len(weights))]
    ratio.sort(key=lambda x: x[0], reverse=True)
    total_value = 0
    total_weight = 0
    for r in ratio:
        if total_weight + r[1] <= capacity:
            total_weight += r[1]
            total_value += r[2]
        else:
            break
    return total_value
weights = [10, 20, 30]
values = [60, 100, 120]
capacity = 50
print(container_loading(weights, values, capacity))
```

output:

Time complexity:

F(n)=o(nw)