

Practical Assessment 2

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Code :

```
public static int maxUnits(int storage_capacity, int [][]profitWeight){
    int n = profitWeight.length;
    int post;
    for (int i = 0; i < n - 1; i++) {
        post = i;
        for (int j = i + 1; j < n; j++)
            if(profitWeight[j][1] > profitWeight[post][1]){
                post = j;
            }

        if(post != i){
            int temp[] = profitWeight[i];
            profitWeight[i] = profitWeight[post];
            profitWeight[post] = temp;
        }
    }

    int profit = 0;

    for (int i = 0; i < n; i++){

        if(profitWeight[i][0] <= storage_capacity){

            profit += profitWeight[i][1] * profitWeight[i][0];
            storage_capacity -= profitWeight[i][0];
        }
        else{
            profit += profitWeight[i][1] * storage_capacity;
            break;
        }
    }

    return profit;
}
```

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Output :

