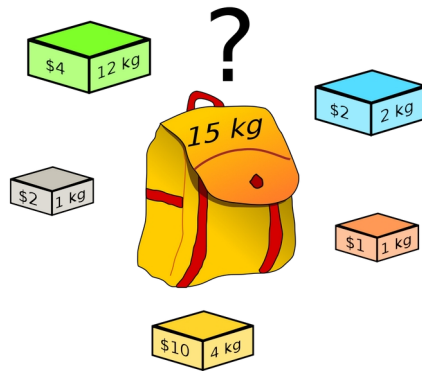


## ***Fractional Knapsack Problem***



Given weights and values of  $n$  items, we need to put these items in a knapsack of capacity  $W$  to get the maximum total value in the knapsack.

### **Input:**

The input begins with the value of  $n$  (number of items), followed by the items themselves represented as pairs (value, weight). The last line of input contains the knapsack capacity  $W$ .

### **Output:**

The output will represent the items taken to the knapsack, and it may contain one or more line (one line per item). Each line must represent a taken item in the format " $v \ w \ f$ ", given that  $v$ ,  $w$  and  $f$  are, respectively, the value, the weight and the fraction of the current item. The last line of output must contain the sum of all the item values taken to the knapsack.

### **Sample Input:**

```
3
60 10
100 20
120 30
50
```

### **Sample Output:**

```
60 10 1
100 20 1
120 30 0.66
240
```