Assignment 11-1

R-5.1

a:(2,4) , b:(10,6), c:(8,5), d:(11,7), e:(14,3), f:(7,1), g(9,6)

v/w 3 , 1,67 , 1,6 , 1,57 , 4,67 , 7 , 1,5

f:7 , e:4,67 , a:3 , b:1,67 , c:1,6 , d: 1,57 , g:1,5

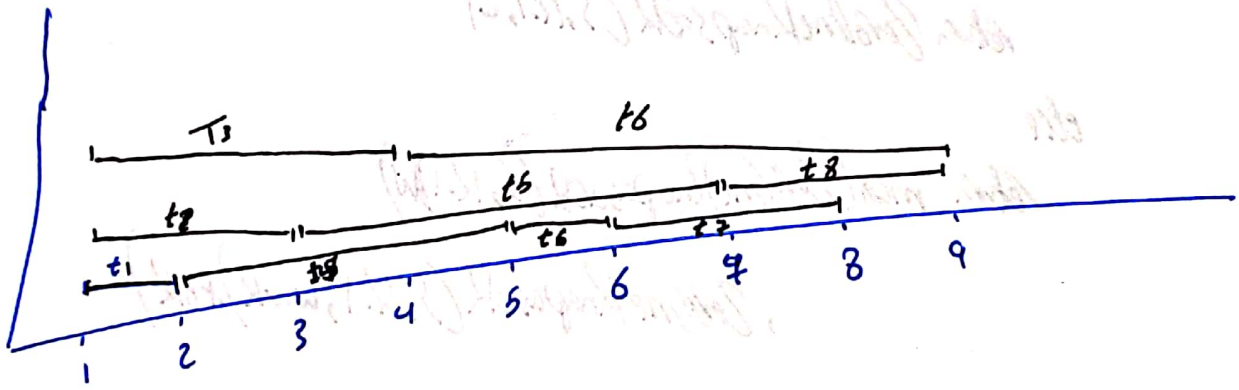
weight left 18-1=17 , 17-3=14 , 14-4=10 , 10-6=4 , (4-5)*8=6,4

Σ weights is 18

Total weight = 49,4

optimal ⟶ f,e,a,b,c ⟶ (7,1), (14,3), (12,4), (10,6), (8,5)

R-5.3



Assignment 11.2

R-5.12

You can't use it in Partial Part, Cz it Not 1Knapsack problem
you have to use 0.1 functional problem.

R-5.9

```
Algorithm ZeroOneKnapsack2(S, k, w)
    if k<0 U w<0 then
        return 0
    else
      e : S.elemAtRank(k-1)
      bk : e.benefit()
    wk : e.weight()
    if wk > w then
        return ZeroOneKnapsack2(S, k-1, w)
    else
      return max(ZeroOneKnapsack(S, k-1, w)
                 , ZeroOneKnapsack(S, k-1, w-wk)+bk)
```