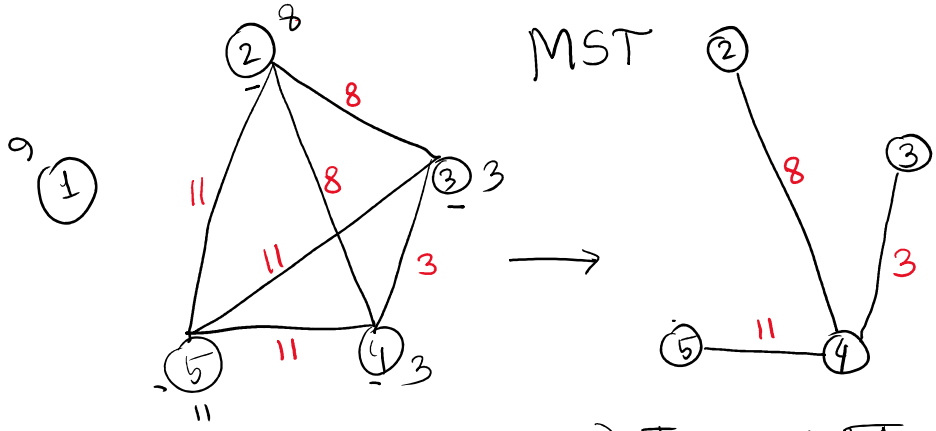
5 1 7 3 4

↳ sort

↳ max(a[0]×a[1], a[n-1]×a[n-2])



MST

1) Prim's Algo

2) Kruskal Algo(DSU)

1) Tree হতে হবে।

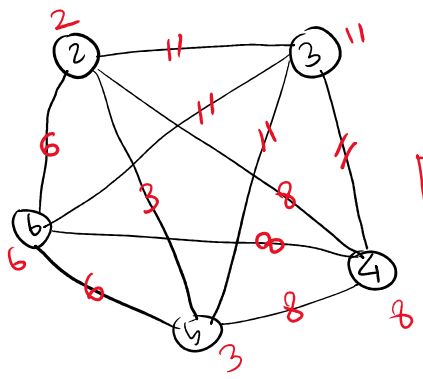
2) Sum of weights minimum হওয়া লাগবে।

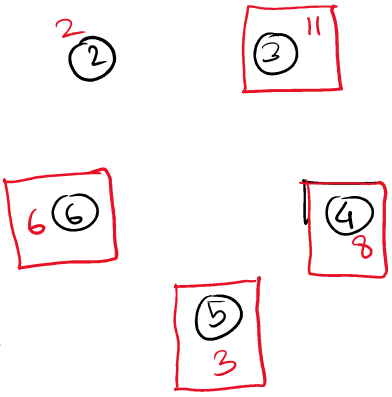
$\sum$ — min

1	2	3	4	5	6
5	2	11	8	3	6

11+8+6+3

=28

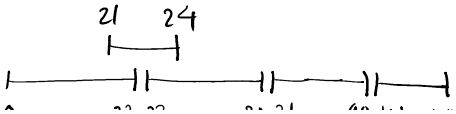




Greedy

1) Task Scheduling

X 1) smallest task first



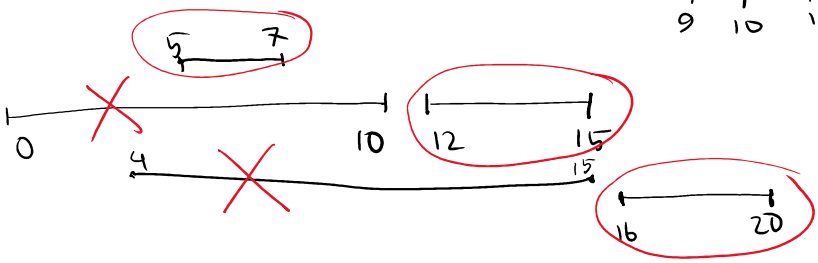
1) Task Scheduling

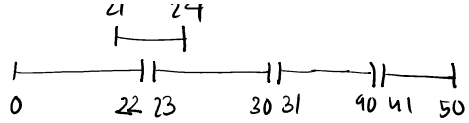
st, en

[0,10]
[5,7]
[12,15]
[16,20]
[4,15]

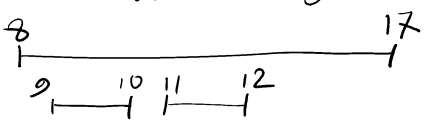
PrevEnd = 15

[5,7] Sort → [0,10] [12,15] [4,15] [16,20]

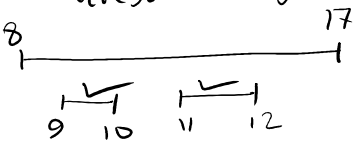




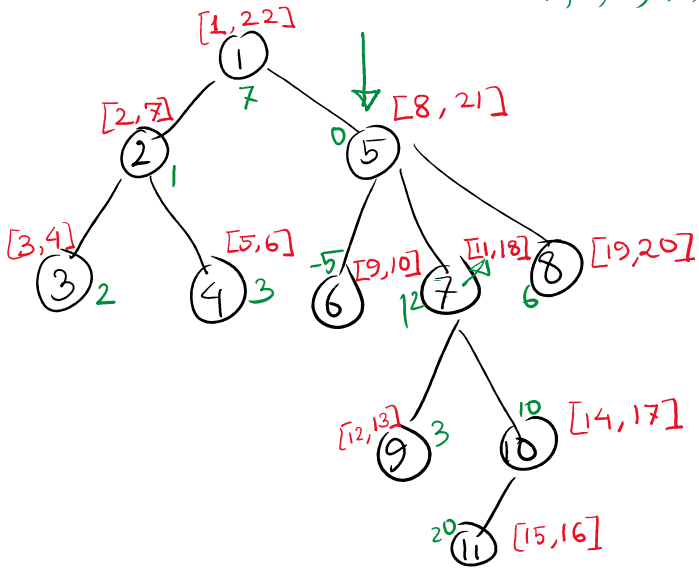
2) Earliest start first



3) Earliest end first



2) Fractional Knapsack



1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

7,1,2,0,3,0,0,0,-5,0,12,3,0,10,20,0,0,0,6,0,0

Point Update

Range Sum

, 22

, 0