

501

Treevertices	Remaininguestices	Illustration
a(-,∞)	b(a,2),c(a,5),d(a,3)	<u>0</u> 2 b ·
b(a,2)	c(p)), d(p))	© 2 b
c(b,1)	d(c,2)	© 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

:. The total cost of all edges is a-b-c and b-d is 2+1+1=3

2) To compute the sum of subsets for the following graph and then satisfy the given constrants set S{3: (a, b, c, d, e, f, 9, h, i) values used are V[i]=(1,2,3----9)

used all values only one time Constraints hold such as a+b+c = c+d+e = e+f+g = g+h+i

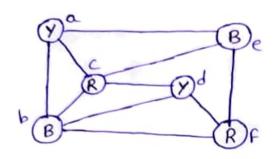
59 }= (a,b,c,d,e, f,g,h,i) C b Sol 0 V[i] = (1,2,3,4,5,6,7,8,9) F Given that atb+c=c+d+e=e+f+g =g+h+i By using the Values V&i3 and adding equal to other three values of sum. رال = 14 2 = 13 =14 a+b+c=c+d+e=eff+g=g+h+i 3+9+1=1+8+4=4+7+2=2+5+6 6+7+1=1+5+8=8+4+2 14 13 = 13 = 13 = 13 14=14=14=14=2+3+9 3) calculate the chromatic no for the following Graph Coloring. 501 01 Greedy colousing algorithm) initiate all the nodes 2) set the node for the first coloring, the Priority is the node with the largest degree. 3) choose the color candidate with the selection color function with no adjacent node having the same colod

* Check the eligibility of the color, if it's abject to save to the Solution set.

* is the solution complete? Go to step 2 if not yet.

thoose the four colours

Bue, red, yellow, Green



a = Yellow

B = Blue

C = Red

d = Yellow

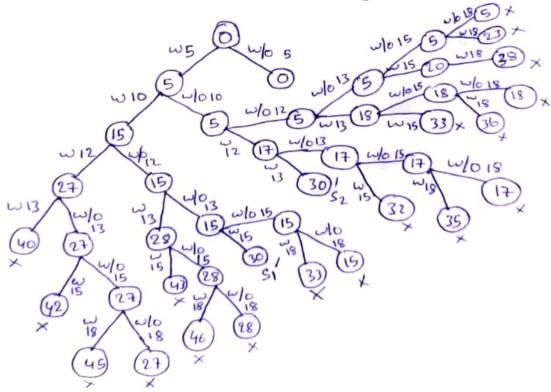
e = Blue

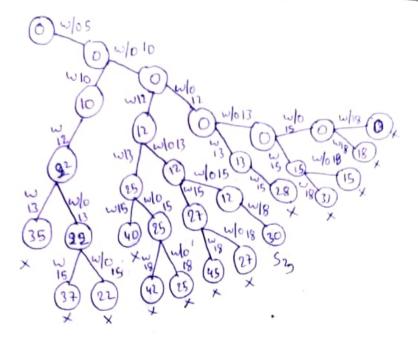
F = Red

Consider a set S= (5, 10, 12, 13, 15, 18) and d=30. Solve it for obtaing a sum of subset.

Given a set S = {5, 10, 12, 13, 15, 18}

by adding above set to get d=30.





we get three solution

$$S_3 = 5 + 12 + 13 = 30$$

Time Complexity = O(2").