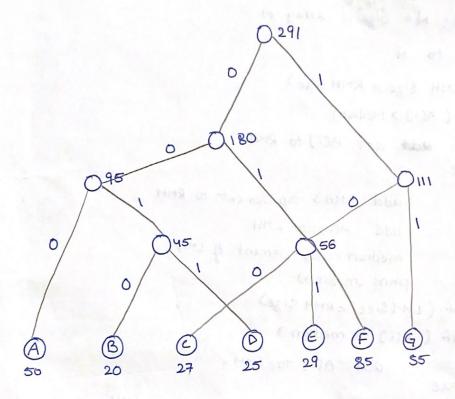
HW-2 Your Name: Desired y Soi Sankerthana.
Your Student ID: 50465523

Sumbols	a	Ы	c	d	e	IF	9	
Symbols	50	20	27	25	29	85	55	

Huffman Code

9:000 B:0010 C:100 D:0011 GE:101 F:01 G:11



Cost =
$$20 \times 3 + 20 \times 4 + 27 \times 3 + 25 \times 4 + 29 \times 3 + 85 \times 2$$

 $+ 55 \times 2$
Cost = 778

heap Median &

while (i=0 to N) do

else

ADD y topmele to an

12 Lower half

y = upportalt

ADD ACIT + = # 4

m = top ele of y
print(m)

else if (x>y) and (Aci) >m) then

else

ADD n top ele to y

ADD Aci]+= X

m = topele of x

print (m)

else if (n = y) and (Aci] < m) then

ADD ACIJ+= X

m = top ele of x

else

ADD . Ari]+= y

m= top ele of y

print (m)

3) Given that, In the interval Control problem, we see given n intervals [SI, ti), [S2, ti]. ... [Sm, tn]

Such that Uie(n) [SI, ti] = [0,1]

0 10 20 30 40 50 60 70 80 40 100 110 20 150 1140 150 40

4

Sntervals are (0,60], (0,35], (40,120], (55,140], (60,20], (100,100), (130,160)

3 intervals indexed by 1,4,7 to cover interval [0,160]

The main aim of problem is to give Smallest Size set where 8 belongs to n such that S_{i} , $t_{i} = [0,T]$ the Stretch Iman which Contains 18' - Bahas Longest completion time. that is an ideal arrangement the Span of [SI, ti] [Sn, tn] to Such extent that 8, t belongs to Subset of Si, ti S C {1,2,3... ng to an entent that [3,t] belong to Subset of [siti] for ((S, ti) - -. [sn,tn]) 3 - Ø, t + 3 while t ≤ 8 do ti = max E[tj, sj = t = tj } S - S b Union Sig $t \leftarrow 2i$ Get 131 back 11.