s. list out the applications of Greedy method? -Any Applications - Luapeach problem -) Job sequencing with readlines -> minimum cost spanning tree * prim's algorithm * trustal's algorithm - Single Source shortest path problem. H. what is minimum cost spanning tree? And let G= (U, E) be an undirected connected graph. A subgraph T= (V, E') of G is a granning tree iff T is a tree consider the following graph ? Then, some of the possible of spanning trees were, 5. Define prin's algorithm? And To obtain a minimum cost spanning tree, greedy strategy devike to build the tree by considering edge by edge. The next Edge it educted according to optimization criteria.

Eastays

let Tob must be considered as decressing order of profit

127, (P11P21P31P41P5, P61P3) = (3,5,20,18,1,6,30)

(d1,d2,d2,d4,d5,d6,d7) = (1,3,4,3,2,1,2)

Tob must be ascending order = (7,3,4,6,2,1,5)

7	Assigned slots	considered	Action	posit
6	none	(90)	assign(112)	
273	[1,2]	3	assign (314)	
१७,3}	[3,4][112]	ч	assign (2,3)	
57,3,43	[3,4][1,2][2,3]	6	assign(011)	23
27,3,4,6}	[0,1][3,4][1,1][2,5]	2	reject	74
§7,3,4,6}	[0,1][3,4][1,2][2,3]	1	reject	74
£7,3,4,6}	[01][314][112][213]	5	reject	74
		Sep.	West S	
Barrier State of the last		-		

To optimal solution is

To optimal solution is

To spiral solution is

zen ols knapsack problem

consider a objects and a knapsack tack object is has a roeight we and the knopsack has a topacity m. It object i is placed into happack them a profit of P121. 21=0 or 1 is earned. In: consider the knopsack instance mas and may be tet of and we are shown below.

sequence of decision are [i Pi wi				
2° = {(0,0)} 2; = {(1,2)}				
=> Apply merge on 2° & 5°, 3 5 4				
s'= {(0,0), (1,2)} 4 6 5				
=) Apply purging rule on s', we get				
S'= {(0,0)}, (1,2)} S'= {(2,3), (3,5)}				
=) Apply merge on s' & s'				
32= {(0,0), (1,2),(2,3), (5,5)}. a) Applying purging rule on 52, 00 get				
3, 26(0)0)(1)5)(5)3)(3)2) 3, = {12,11,10,0)1,2)(8,3)]				
1 moly merge on 52 & 3, we get				
(3,510,0)(1,2)(2,3)(3,5)(5,4)(6,6)(3,1)				
-) realy purging take on s, as f				
1 2 1 1 2 2 1 (2.2) (5.4), (3.0)				
3 (16.5), (2,7), (8,8), (11,9), (12,11), [becand				
=) Apply merge on 838 s,3 and also purging rule				
on s4. Su. {(0,0),(1,2),(2,3),(5,4),(6,6),(7,7),(8,9),(6,5)				
100/18/8/ (1119), (1210))((2))(11)				
* Now select pain (8,8) from s'(: since wem)				
(5,8) € 37-1				
18.87 68				
(8,8) E53, So 7421				