Date:

S S m 1 W 1 1

Trequires eithers

Minimum or Maxim

m Gireedy Method

· Fesible solution: Which satisfying to Minimum on Maximum

The condition.

optimal solution + Fesible and Best only one.

1 1. Greedy Method.

2. Dynamic Przogrzaming.

3. Browneh and Bound.

Detimitation Methol

AIGORITHM. Girredy (a,n)

forc i=1 to n do

1. 1. 6 1.66 3 1. 6 4 1.

n= select(a);

if Feasible (ix) Then
Solution = solution fx;

2-2-11

8 = 5 + 8

3-1-2.

0 - 2 - 9

Purper Ploducts

according HERRY

40

Knapsack problem.

isedojues etteni.

Maximi Date Dilling

n=15 de lizofits de la 100 5 dt 15 . 2000 p/00 weights born stoles 3 5 7 1 moitules Jamil 70.

bodtom possis. L

12. Dynamic Picogicaming.

brufill the bag as the proofit holls be a Maximuma (

· Objects arre dividiable.

AIGORITHM. Guzzedy (a.n)

Step 1: Proofit pero kg.

forc i=1 to n do So, P : 5 1.66 3 1.6 4.5

n= selected;

7: (2/3 5 0 1 2/3 5 0 1 2/3 5 0 1

19-1=14

14 - 2 = 12

12-4-8

8 - 5 = 3

B-1=9

9 - 2 = 0

Total profit;

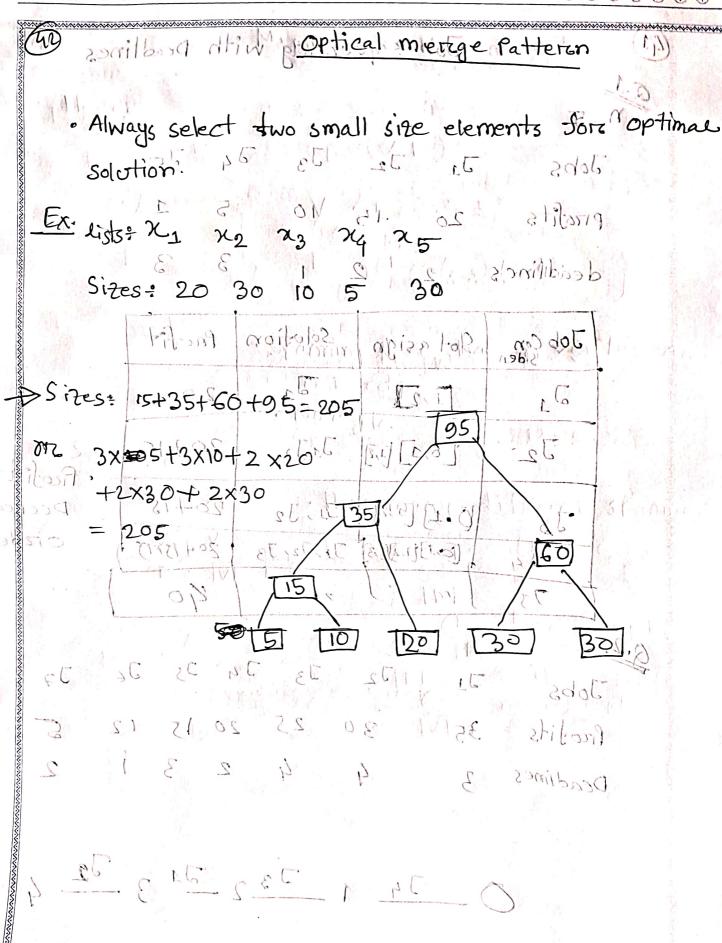
1x2+3x3+1x5+0x0

+1 X1+1 X9+1 +2

(41) Job sequencing with Deadlines
. Always school due small size clements 3= 10
Jobs J1 J2 J3 J4 J55110103
profits 20 15 10 5 1
deadlines 2 1 3 3
Job Con Slot asign Solution Profit
71 [1,2] 300 310+ 12-95+21 12-512-4
J2 [0,1] [1] J2J2 S - 207 15 X8
73 [2] 71, J2 20+15 Pecneasing
074 [61] 1.2/2.73 20415P17 Orzdere.
[75] [11/2/31/40]
9.2 E CE 100 100 100 100 100 100 100 100 100 10
Jobs J1 J2 J3 J4 J5 J6 J7
Profits 35 30 25 20 15 12 5
Deadines 3 4 4 2 3 1 2
74 1 73 2 21 3 72

Floral ****

Proportion of HEARIN'S



Flord Products

.come HEARTS

minoral Huttmannicoding

Message - BCCABBDDAECCBBAEDDCC

lenghth = 20 - 10 Ascii 5, 8 bit

Total: 8x20 = bits.

A	(1)		
B	1	910	
cD.		(). ((0)
D	f s	f #	
ϵ_{2}			(3
		1	

Character Count/Inequency Code 3×3×9 Oly BON. 51x 2=10 16×L=12 Message = 95 bit

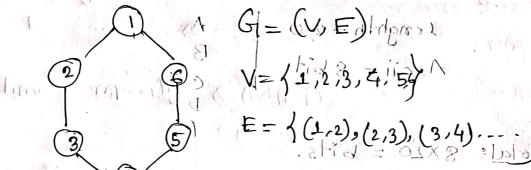
> A=001 B

£ = 000

Total Bits =

Minimum Cost spanning Trace

Herse Message - BECKBBDDAECEBBATIONE



Spanning Tree has n vertics and

· No cycle.

· How many different spanning

Massage = 9 bil

1E1 - no of cycles.

- no. of cycles.

01V1-1

steps: MILLIADIN & Prim's AlGIOIGIThm

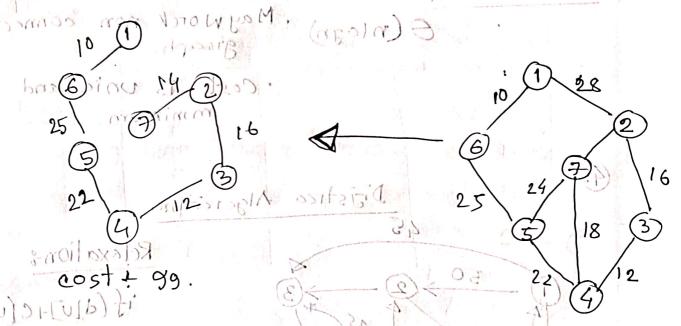
2. Always select a minimum cost edge I nom the graph but make some that it should be connected

1 (= (n () = ()(n2).

to already selected mentices. Blingmos smit

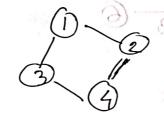
Solver

If Min heaps



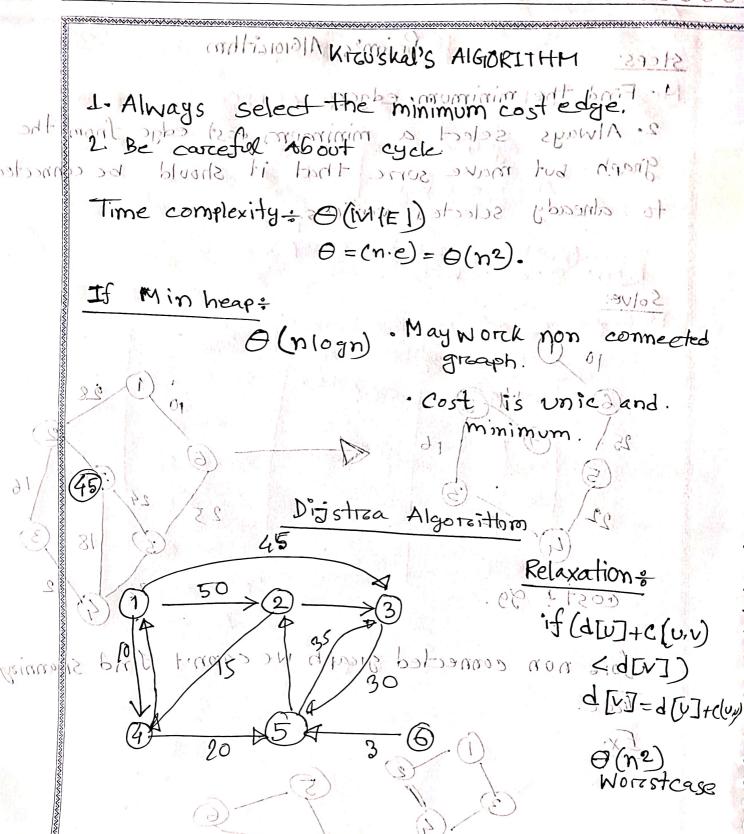
for non connected greath we cannot find spanning.
Tree.

Ex









Floral Transition WEARTS

Stareting v	reretex	1:
-------------	---------	----

1	1 1 wast 14	· Aller Christian States
	Selected V.	2 3 4 5 6
	4	50 45 10 ∞ ∞
	15 1000	50 (45) 10 (25) 00
	2	45 45 (0) 25 00
113	10/01/3 1/2	45 (45) (10) (25) 00
	6	(45) (45) (10) (25) (20) h
		Contract of the second of the

Dreawback:

Dijstræ Algerithm may Nork or may not work of negetive redges.

