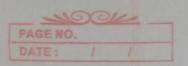
Lab-10



AIM:	Travelling	scuesmo	un Proble	mo	using
	Neasest r				
	Edge Her		rost E S		

one when the person is at city one, we have to sind out which is the next best place to go

18 5 ± (0)

Nealest Neighbous Heusistic

				A A STATE OF				
3	3-/	31		2	3	3	4	5
city	91	30	05	10		8		7
113	(2	10	31	-	0	100	58	6
100	3	8	0	10	18	- 08	8	9
8	4	9	SI	5	18	808	- 0	6
69	5	7	59	6		9 01	6	-

city1: 1-5-2-4-3-1

cost = 7+6+5+8+8

order should not be move

12 x'. cost = 340

cityz: 2-4-5-1-3-2

cost = 5 + 6 + 7 + 8 + 10

cost = 36

city3: 3-1-5-2-4-3

Cost = 8+7+6+5+8

(AC+ - 31.

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city 4: 4-2-5-1-3-4

cost = 5 + 6 + 7 + 8 + 8cost = 34

city 5: 5-2-4-3-1-5

cost = 6 + 5 + 8 + 8 + 7cost = 34

CORRECTLY Edge Heuristic

A B C D E F

A 0 10 20 30 40 50

B 10 0 31 21 51 41

C 20 31 0 12 59 100

D 30 21 12 0 5 8

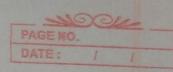
E 40 51 59 5 0 69

F 50 41 100 8 69 0

Rules:

select / Add edges

- Incremental order of cost
- Deggee Should not be more more
- cycle not allowed, except sturing



Let's start with DE

5, DE V 8, DF V

10, AB ~

12, CD X

20, AC V

21, BD X

30, AD X

31, BC X

40, AE X

41, BF 🗶

50, AF X

51, BE X

59, CE V

D-E-C-A-B-F-D

: cost = 5+59+20+10+41+8

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when applying Neasest Neighbous
Heusistic

D-E-A-B-C-F-D

cost = 5+40+10+31+100+8

cost = 194

7

8.0F L

12, CD

20 AD X

X JA JON

SO AF X

SI BE X

FICHRIPPED