

12-04-25
Exercise 3
(OM231-ML)

Jude Renier II b. prodigalidad

8											
7											
6											
5											
4											
3											
2											
1											
	1	2	3	4	5	6	7	8	9	10	

Q-3. TA

$$TA = \sqrt{(5-3)^2 + (4-4)^2} \quad TB = \sqrt{(5-2)^2 + (4-4)^2} \quad TC = \sqrt{(5-3)^2 + (4-3)^2} \quad TD = \sqrt{(5-3)^2 + (4-5)^2}$$

$$TA = 2_{\text{II}} \quad TB = 3_{\text{I}} \quad TC = 2.2_{\text{II}} \quad TD = 2.2_{\text{II}}$$

$$TE = \sqrt{(5-4)^2 + (4-7)^2} \quad TF = \sqrt{(5-8)^2 + (4-7)^2} \quad TG = \sqrt{(5-4)^2 + (4-6)^2} \quad TH = \sqrt{(5-4)^2 + (4-8)^2}$$

$$TE = 5_{\text{II}} \quad TF = 4.2_{\text{II}} \quad TG = 2.2_{\text{II}} \quad TH = 5.6_{\text{II}}$$

$$TI = \sqrt{(5-4)^2 + (4-4)^2} \quad TJ = \sqrt{(5-10)^2 + (4-7)^2} \quad TV = \sqrt{(5-7)^2 + (4-7)^2} \quad TI = 0_{\text{II}}$$

$$TI = 1_{\text{II}} \quad TJ = 5.8_{\text{II}} \quad TU = 3.6_{\text{II}}$$

$$UA = \sqrt{(7-3)^2 + (7-4)^2} \quad UB = \sqrt{(7-2)^2 + (7-4)^2} \quad UC = \sqrt{(7-3)^2 + (7-3)^2} \quad UD = \sqrt{(7-3)^2 + (7-5)^2}$$

$$UA = 5_{\text{I}} \quad UB = 5.8_{\text{I}} \quad UC = 5.6_{\text{II}} \quad UD = 4.4_{\text{II}}$$

$$UE = \sqrt{(7-4)^2 + (7-7)^2} \quad UF = \sqrt{(7-8)^2 - (7-7)^2} \quad UG = \sqrt{(7-6)^2 + (7-6)^2} \quad UH = \sqrt{(7-4)^2 + (7-8)^2}$$

$$UE = 2_{\text{II}} \quad UF = 1_{\text{II}} \quad UG = 2.2_{\text{II}} \quad UH = 3.1_{\text{II}}$$

$$VI = \sqrt{(7-4)^2 + (7-4)^2} \quad VJ = \sqrt{(7-10)^2 + (7-7)^2} \quad VV = 0_{\text{II}} \quad VT = \sqrt{(5-7)^2 + (4-7)^2}$$

$$VI = 4.2_{\text{II}} \quad VJ = 3_{\text{II}} \quad VT = 3.6_{\text{II}}$$

	A	B	C	D	E	F	G	H	I	J	T	V
T	2	3	2.2	2.2	5	4.2	2.2	5.6	1	5.8	0	3.6
U	5	5.8	5.4	4.4	2	1	2.2	3.1	4.2	3	3.6	0

4.-Q.

Neighbours

No. of Neighbors

POINT TYPE

CLUSTERS

A	B, C, D, I	4	CORE	CLUSTER 1
B	A	1	NON-CORE	CLUSTER 1
C	A	1	NON-CORE	CLUSTER 1
D	A	1	NON-CORE	CLUSTER 1
E	H, G, F, J	4	CORE	CLUSTER 2
F	E, U	2	CORE	CLUSTER 2
G	E	1	NON-CORE	CLUSTER 2
H	E	1	NON-CORE	CLUSTER 2
I	A, T	2	CORE	CLUSTER 1
J	E	1	NON-CORE	CLUSTER 2
T	I	1	NON-CORE	CLUSTER 1
U	F	1	NON-CORE	CLUSTER 2

$$(C-P) + (C-T) = CT \quad (C-P) + (C-T) = CT \quad (P-P) + (C-T) = CT$$

$$7. \quad C-S = CT \quad S-C = CT \quad C = CT$$

$$(P-P) + (P-T) = HT \quad (P-P) + (P-T) = HT \quad (P-P) + (P-T) = HT$$

$$P-T = HT \quad P-S = HT \quad P-P = HT$$

$$P = HT + (S-T) = ST \quad (P-P) + (C-T) = CT \quad (P-P) + (C-T) = CT$$

$$S-T = ST \quad C-T = CT$$

$$(C-T) + (C-T) = CT \quad (C-T) + (C-T) = CT \quad (C-T) + (C-T) = CT$$

$$C-T = CT \quad C-T = CT \quad C-T = CT$$

$$(C-T) + (P-T) = HT \quad (C-T) + (P-T) = HT \quad (C-T) + (P-T) = HT$$

$$C-T = HT \quad C-T = HT \quad C-T = HT$$

$$(C-T) + (T-T) = TU \quad C = TU \quad (C-T) + (T-T) = TU \quad (C-T) + (T-T) = TU$$

$$C-T = TU \quad C = TU \quad C-T = TU$$

$$V = T + V \quad V = T + V \quad V = T + V$$

$$V = T + V \quad V = T + V \quad V = T + V$$

$$V = T + V \quad V = T + V \quad V = T + V$$