CMPE- 256 Assignment

	CMFE- 256 Masignme	int
4		
		Name: Sanjak Parte
	10 1 10 1 10 10 10 10 10 10 10 10 10 10	ID 015345046
*	Points X Y	
	A 2 2	
	B 2 6	73837 5
	c 3 7	
1	5 2	Carry
	E 5 5	
	F 5 6 6	Sec. 979 15
	6 6	
	P H H 7 7 10 3 4	1, 4 11 - 10 mm 10
0	I 8 4	
	J 10 (10 6) 6	1 1000713
	k 12 8	
3/18	· · · · · · · · · · · · · · · · · · ·	(3月)57
\Rightarrow	Euclidean Distance	
	en to the bed tos	1- the 29
	P.(A.B) = \((2-2)^2 + (2-6)^2 =	J42 = 4
	come Palating Tod	
	P2(A, L) = \((2.3)^2+ (2.7)^2 = \(1^2+5)	2 = 5-1
	and the state of the second trace	6 (487)
	P3(AID) = (R-5) + (R-2) (13	- 3
	and the second second	
	Py(A, E) = J(2-5) + (2-5) - J3	+3 = 4.24
	2 / 2 / 2	1 7 - 6 7 9
	PS (AIF) = ((25)2+ (2-8)2 = ()=	3+6 = 6.7
	13 (MIL) - (CCC)	

T

P((A, K) = (2-6)+(2-6) = (14+4) = 5.65 B(A) = ((2,7) + (23) = (527 = 5.1 P(A) = ((2-8)) + (2-4)2 - (6-2) = 6.3 P(A, 5) = ((270) + (2-6) = (8+4) = 8-9 P(ATE) = ((212) + (2-8)2 = (10+62 : 11.60 P(B,C): (2-3) + (6-7) = (12+16-1.4 P(B,D) = 1 (25) + (6-2) = 1 32+42 = 5 P(B, E) = (2-5) + (6-5) = (13+1) P(B,P)= (2-5) +(6-8) = (3+22 = 3-6 P(B,6)= 1 8-93+ 6-6) = 1 42 P(B,H) = (R-7) + (C-3) = (52+32 = 5.8 P(B, D) = \((2.88) + (6-4)^2 = \((2+2)^2 = 6.3 \) P(B, J) = 1 (2-10) + (6-6) = 182 = 8

0

P(B,K) = (2-12)3+ (6-8)2 - 10-72 - 10-2 P((,D)= (3-5)+ (7-2) = (2+5) = 5.38 P(C,E) = (B-5)+ (+ 5) = (2+2) = 2.82 P(C,F) = (3-5)2+ (7-8)3 = , [22+12 = 2,24 P(C, C) = 1 (3-0) + (1-6) = 1 3+12 = 3.16 P(C,H)= ((3-7)+(7-3)= 184+4= 5.65 P(C, I) = (3-8)2+ (7-4)2 = (52+32 = 5-83 P(C,T)= J(3-10) + (7-6) = 17 +12 = 7.07 P(C, K) = ((3-12) + (7-5) = (19+12 = 5.1 P(D,E) = (55) + (85) = (132 = 3 P(D,F) = (5-5)+ 8-8) = 162 = 6 P(D, G) = ((5-6) + (2-6) 2 = (12+42 = 4.1 P(D,H) = ((5-7) + (8-3) = (12+12 = 2.23

P(D, F): (5-8) + (2-4) - (3+2 2 3.6 P(D, 5) = (5-10) + Rrc) = (52+42 = 6.4 P(D,K)= (5-12) + (2-15) = (7++1' 2 9.2 P(E,F) = J(5-5) + (5-8) = J32 - 3 P(E, Q) = (5-0) = (171 - 1-4) P(E, H)= (5-7) + 5-33 = (125+26= 2.82 P(E,I)= ((5-4)2 = ((3+1)= 3-10) P(E, J) = (5-10) + 15-6) = 152+12 2 5.09 P(E, E) = ((5-12) + (5-8) = (7 + 3 = 7.6) P(F,G) = ((5-c)2+ (8-6)2 = /12+2 = 2.23 P(F,H) = \ (5-7) + (8-3)2 = \ (2'+5' = 5.38 P(F,I)= (5-8)+(8-4)=, 3742 = 5 P(F, J)= 1 (5-10) + (8-6) = (5+2 = 5.38

9 (F, R)= (5-12)2+ (8-1)= 7 P(G, H) = ((6-3) + (6-3) = (12-3 = 3.16 P((C,7)= (16-8)+(6-4)= (12+2+= 2.82 P(G,3)= (6-10)2+ (6-6)2= (542 -4 P(G,K) = ((6-12) + (6-5) = (6+4 = 6.32 P(M,I)= ((7-8) + (3-4)2= (14+1) P(H, J) = 1 (7-10) + (3-6) = 1 3+3 = 4.24 P(H,K)= (7-12)+ (3-8)2= 152+52 - 7-07 P(I,J)~ (6-10) + (4-4) - (2+2) = 2.82 P(F,K)= (6-12)+(4-1)= (4+4= 5-66 P(J,K) = 1 (10-12) + (6-4) = 1 2+2 = 2.82

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⇒ Distance Matrix: ABCDEFCAMIJK B 0 4 B -5-1 11-4 0 3 5 5-4 0 D 4.24 3.1 2.8 3 6 E F 6.7 3.6 2.2 6 3 0 4 5-65 4 3.1 61 1.4 3.2 0 5.09 5.83 5.6 2,2 24 5.3 3.16 0 11 6.3 (.32 5.4 3 (3.16 5 2.8 1.4 0 6 5 3 83 8 71 K.4 5.1 5.38 4 4.2 2.4 0 11.61 10.19 9 9.2 7.6 7 (.32 7-07 5-5 7.820 (c Distance (8-9) => Potate b/w B&C and minimum, that's why more them into one cluster 2 2 12 -1811, "18 2 + 18 51 -18 31 9

0

77777777777777777777777777777 A (BC) DEFC HTJ A O (B,c) 4 0 18 69 3 P 5 0 E 4.24 2.8 3 0 6 34 F 6.7 2.2 6 300 Ce 5.65 3.16 4.1 [1.4] 8.20 H 5.02 5.65 2.8 2.82 5.4 3.1 0 I 6.3 5.8 3.6 5 7.4 1.4 0 3 8-9 4.8 6.4 5.09 5.4 4 4.2 2.8 0 K 5.05 5.2 7.6 7 (.3 7.1 5.65 2.820 11.61 Merging Points GRE. (BC) D (EG) P PAH & II A JA K 0 A 0 4 (Bc) 5 0 0 3 (EX) 2.82 0 4.24 3 2.2 (2.23 0 F 6.7 5.09 5.65 2.23 2.82 6.33 0 H 63 58 3.6 2.82 5 11.41 0 2 4.8 6.4 4.2 5.36 4.3 282 0 8-3 5 -3 -3 5.2 6.32 7 6.32 545 2.12 0 9.05 11.66

ع) ا	mergling points H & I
A	A BC D ER F HI J K
Be A	
BCB	4 0
DE	3 5 0
EUP	4.24 2.82 3 0
FHOD	6.7 [2,23] 6 2,23 0
	5.03 5.65 2.23 2.82 5 0
J 10	8.9 48 6.4 4.2 5.34 2R 0
	11.61 9.05 9.2 6.32 7 5.65 2.82 0
3	Morging points: BC & F.
3 87	A BCF D FOR HIT JOK
A	0
BCF	4 0
D	3 5 0
EG	4.2h [2,23] 3 0
HI	5.05 6 3.23 212 0
3	8.9 4.4 6.4 4.2 2.72 0
×	11.66 7 5.2 6.32 5:45 2.82 0
	20 70 10 10 2 4 0
	1 717 31 3 8 343 30 830 1311 1

C						
4						
7						
7777						
-1	9)	Morging	points BC	FR Eq	4000	to the same of the
-1						dan en
30	angel (amontopus temperatur	A	BCFEG	D H	I J	k
-4	P	0				
-0	BCEFG	L	0			100 BBa 38
-0	D	3	3	0		
4	HI	5-03		2,23		43
0	3	8.9		26.4 2		0
9	K	11.66	6.32			
3			0, , _	J	ange str. I specific access	
3			* 311 11 3 2 12 2 3			
3	1	Marsina	HI & D.			
		moging		3		7,43334
		70	1257.81	3.2		
		A	BCEFG		J	K
)	A	0	5(2)			
B	CEFE	G 773	1 0800		23.74	
	1	3	[2.82]	0		
	3 DHI	8.9	4	2.82	0	
1	10	0)	6.32	0 5.65	2.72	0
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3)	mogin		CK NIT.	
	Maria	K & BCDEF		
			o n	
BLDEFAMIJ	3	[2,72]	0	4 /
P	P 0	BCDEFCINEZ		•
	Mogly	BCDEFQHE	. 8 5	
The second secon	11.66	5.65	2.82	
	6.3	[3,82]	0	
BCDEFGIND	3	0 0		
6	0	BCDEFGHI	J ()	K