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# CS481: Bioinformatics Algorithms

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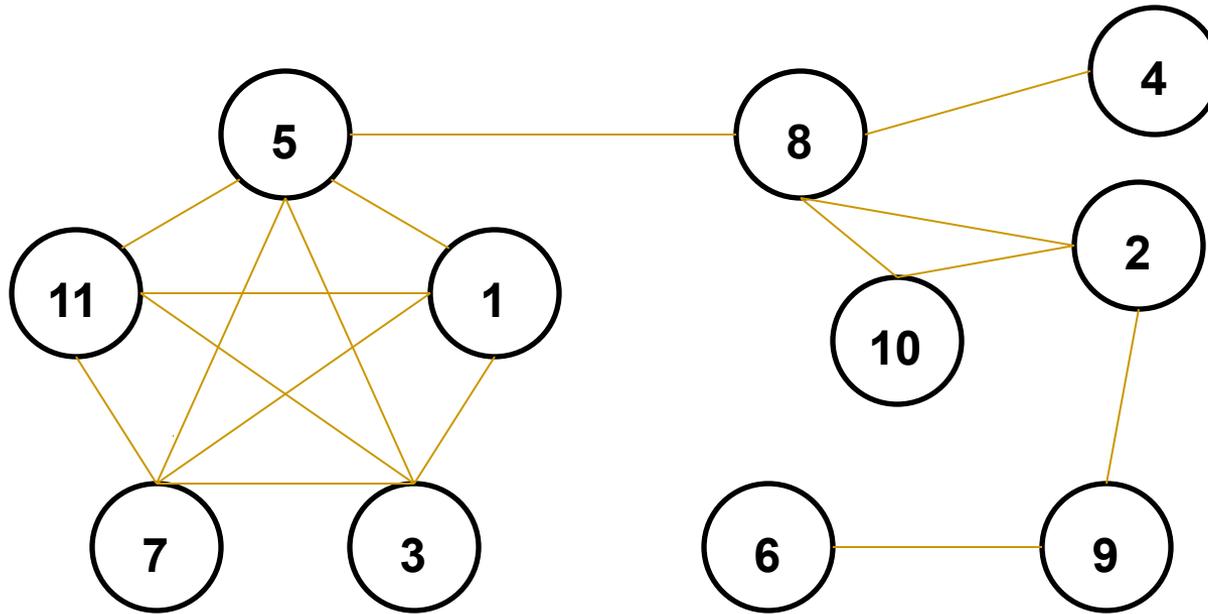
# Quiz 4

Given the following distance table, construct its corresponding distance graph, and use the CAST algorithm to find the cliques/clusters

$$\Theta = 8$$

	g1	g2	g3	g4	g5	g6	g7	g8	g9	g10	g11
g1	-	11	4	17	2	13	1	13	13.5	9	2
g2	11	-	9	9.5	13	11	16	1	6.5	2	8.8
g3	4	9	-	11.2	1	13.4	2	8.1	9.2	6.8	1.4
g4	17	9.5	11.2	-	18	14	13.6	7.2	9.9	16.5	9.6
g5	2	13	1	18	-	9	1	6.8	12.1	8.7	3
g6	13	11	13.4	14	9	-	8.9	13.2	1.1	11.5	9.6
g7	1	16	2	13.6	1	8.9	-	9.7	10.5	13.2	11.3
g8	13	1	8.1	7.2	6.8	13.2	9.7	-	9.6	1.6	10.6
g9	13.5	6.5	9.2	9.9	12.1	1.1	10.5	9.6	-	8.7	12.1
g10	9	2	6.8	16.5	8.7	11.5	13.2	1.6	8.7	-	9.9
g11	2	8.8	1.4	9.6	3	9.6	11.3	10.6	12.1	9.9	-

# Quiz 4



$C1 = \{g1, g3, g5, g7, g11\}$   $C2 = \{g2, g8, g10\}$   $C3 = \{g6, g9\}$   $C4 = \{g4\}$