

Neighbor-Joining Problem (IBO level)

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You are given the following distance matrix for five taxa (A, B, C, D, E).

	A	B	C	D	E
A	0	10	0	12	13
B		0	12	13	0
C			0	14	15
D				0	16
E					0

Tasks: - Perform the first iteration of the Neighbor-Joining algorithm. - Calculate the new distances after merging. - Draw the final unrooted tree with branch lengths (if possible). - What is the advantage of NJ over UPGMA?