**Steps in Multiple Alignment**

(A) **Pairwise Alignment**

Example - 4 Sequences, A, B, C, D.

- 6 Pairwise Comparisons then Cluster analysis

(B) **Multiple alignment following the tree from A.**

- Align most similar pair.

- Gaps to optimise alignment

- Align next most similar pair.

- New gap to optimise alignment of (BD) with (AC).

- Align alignments - preserve gaps.