Lecoo-intro AT Chapter 1

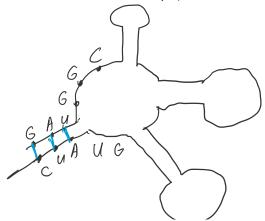
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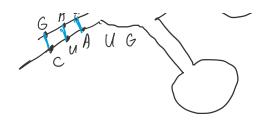
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Objectives: to study general computational problems and their algorithms, with a focus on the principles used to design those algorithms. Learning goals: L Design algorithms using common techniques 2. Prove worst-case runtime 3. Prove a problem is NP-hard Example 1: Low cost network design Example 2. Finding closest set of points

Example 31 RNA folding

GAUGGCAAAUGCUAAGG CCU ...





Example 4. Genomic alignment

ACCGGTTAA Z ACCGGTT-AA ACGATTCAA J A-CGATTCAA