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About.txt
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               Summer Training 2014
 Project: Implementation of Bioinformatics Algorithms
         to Compare DNA Sequences in Java
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         (Using Dynamic Programming)
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               Project Description
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The Project is a compilation of three DNA comparison techniques:

1) Longest Common Subsequence --

This comparison technique is based on finding out the longest set of characters occuring in order (not necessarily adjacent) in both the input strings.

Example:

ATCTGAT and TGCATA

The longest possible subsequence is TCTA.

```
A T - C - T G A T
- T G C A T - A -
```

2) Global Sequence Alignment --

This comparison technique is based on finding the overall best alignment of the input strings based on the common characters (in order).

Example:

ACGC and GACTAC

The best global alignment is along characters ACGC.

```
-ACG-C -AC-GC
GACTAC GACTAC
```

3) Local Sequence Alignment --

This technique has the most practical application as many researches require the comparison of parts of DNA sequences to find common traits. In

About.txt this the best and the longest local alignment of characters in the strings is sought.

Example:

CGTGAATTCAT and GACTTAC

Alignment:

GAATTCA GAATT-C GACTT-A GACTTAC

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