**ITK 279**

**Algorithms and Data Structures**

**Bonus 1**

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**Sprint 2016**

**Important Information**

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**Summary**

This assignment revises some important things about the dynamic programming. Where we should compute temporary solution to find the best result solution.

**Output of the program**

|  |
| --- |
| **$ ./a.out 10**  Sequence length:10  9, 10, 10, 0, 4, 3, 2, 4, 1, 2  Longest increasing subsequence, length:3  0, 3, 4  **$ ./a.out 30**  Sequence length:30  12, 5, 20, 27, 9, 7, 17, 6, 1, 22, 4, 20, 22, 10, 5, 10, 13, 21, 9, 16, 1, 8, 25, 25, 14, .....  Longest increasing subsequence, length:8  1, 4, 5, 10, 13, 21, 25, 30 |