**ASSIGNMENT 1 – INTRODUCTION TO ALGORITHMS**

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| Topics |
| * Notion of Algorithm * Fundamentals of Algorithmic Problem Solving |

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| Readings |
| * CLRS, Chapter 1 |

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| Instructions |
| 1. Select a **partner** and Inform instructor who you will work with  2. Do the problems and answer the questions listed in the next section   * Keep in mind Guidelines on plagiarism.   3. Follow instructions for submitting your work.  PROBLEMS AND QUESTIONS |

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| Problems and Questions |

**1. Problems**

1. Answer questions in **your own words**, **justify** and **explain** your answers, and **show all work**.
2. Be creative thinking about the problems (i.e., have fun)
3. Hints for exercises are listed in the back of your text.

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| Required | Points | Extra Credit | Points |
| 1: Algorithm  2: Floor algorithm  3: Extended Euclid algorithm  4. Order of growth | 25  25  30  20 | 3a: Euclid by subtraction  5: Problems with multiple algorithms | 5  5 |

2. **Summary questions:**

a. What concepts did you have trouble with? What still confuses you?

b. Suggestions for improving this assignment in the future?

Help instructor help you

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| Submitting your work |

1. Make sure that your name(s) are in all your files.
2. If you have more than one file for your solution, make a .zip file for your project
3. In Blackboard, attach your solution file to the submission for this assignment.

GUIDELINES ON

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| Guidelines on Plagiarism in Computer Science |

Outlined in the Syllabus