

CPSC 1301 COMPUTER SCIENCE 1 FALL2014
Assignment 1 – Computational Thinking and Recycling

Posted on 8/22/2014

Due on Friday, August 29, 11 :59 PM EST
Total Points : 40

Work in groups of two on this assignment.

Problem statement:

There are two recycling bins on the fourth floor of CCT, one for plastic bottles and one for aluminum cans.

Your task is to answer the questions:

- a) how many plastic bottles can fit in one bin?
- b) how many aluminum cans fit in one bin?
- c) how many plastic bottles can be recycled campus wide?
- d) how many aluminum cans can be recycled campus wide?
- e) Which should we encourage the university community to drink from – plastic bottles or aluminum cans? Why?

Submit the following items:

1. Your answer to the questions above. (5 points)
2. A detailed description of how the problem was solved. Mention aspects of computational thinking you used to come up with your answer and describe how they were utilized. (15 points)
3. A pseudocode version of the solution algorithm (10 points)
4. A flowchart version of the algorithm (10 points)

Format of your submission:

- Write your response in a document file.
- Include **both group members' names** (on the top right).
- Include a title in your assignment: **CPSC 1301 Assignment 1**
- Name your file <last name>_<first name>_Assignment1.docx>
- Submit the file in the **Assignment1 Dropbox** in CougarView
- Both you and your partner must submit the file with the work done