



The City College of New York, CUNY
Department of Compute Science
North Academic Center, Room 8/206
160 Convent Avenue, New York, NY 10031

Assignment 6 – Fall 2021

Due Date: by Wednesday December 8, 2021 11:59PM

How to submit: upload JAVA files to Blackboard

Please note:

- ✓ This is an individual assignment; please do your own work. Sharing and/or copying code in part or as a whole with/from others will result in a grade of 0 and disciplinary actions for all involved parties. If you run into problems and have done your best to solve them, please talk to me during office hours or by e-mail.
- ✓ There is a 25% grade deduction for every day the assignment is late unless prior permission is granted.

Preamble

In this assignment we will work with Java's Lambdas and Streams as an alternative to traditional procedural programming. None of the required work should use a *FOR*, *WHILE*, or *DO ... WHILE* loops; you can only use functional programming reductions and intermediate operations. Conditional structures (IF, SWITCH, and Ternary operator) are OK.

There is only one file to complete for this assignment. Class *A6Utilities* works with the provided test code. Update the methods of *A6Utilities* as follows:

What to submit:

1. *A6Utilities.java*

What you should complete?

Refer to each method's Javadoc. Do not modify any of the method's headers.

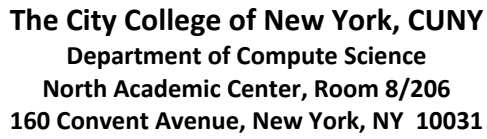
Grading:

Item	Points
<i>generateRandoms</i>	20
<i>letterToGrades</i>	20
<i>sumBetween</i>	30
<i>countCharacters</i>	30

100

Output:

Note the output will differ between different runs due to the use of *SecureRandom*. The output for the character counts must be the same.



Differ for each run