ACS 2130: Core Data Structures & Algorithms

Coding Challenge Scoring Rubrics

Word Jumble Project Submission (6 points to pass)

	0 Did Not Meet Expectations	1 Met Some Expectations	2 Met Most Expectations	3 Met All Expectations	4 Exceeded Expectations
Word Jumble Project Code Requirements • **≥ 30 lines of code** • **Uses algorithms or data structures covered in course to solve jumble**	< 10 lines of code OR does not use any algorithms or data structures covered in course to solve jumble	≥ 10 lines of code AND uses at least one algorithm or data structure covered in course to solve jumble	≥ 20 lines of code AND uses at least one algorithm or data structure covered in course to solve jumble	≥ 30 lines of code AND uses at least one algorithm or data structure covered in course to solve jumble	≥ 50 lines of code AND uses two or more algorithms or data structures covered in course to solve jumble
Word Jumble Project Functional Solution • **Solves the first 4 words of jumble** • **Code runs fairly quickly (≤ 20 sec) by using efficient algorithms and data structures**	Code does not run correctly OR does not solve any of the first 4 words of jumble OR runs in > 20 seconds because it uses inefficient algorithms and data structures	Solves at least 1 of the first 4 words of jumble AND runs in ≤ 20 seconds by using efficient enough algorithms and data structures	Solves the first 4 words of jumble AND runs in ≤ 20 seconds by using efficient enough algorithms and data structures	Solves the first 4 words of jumble AND runs in ≤ 10 seconds by using fairly efficient algorithms and data structures	Solves the first 4 words of jumble AND final jumble phrase AND runs in ≤ 10 seconds by using efficient algorithms and data structures

ACS 2130: Core Data Structures & Algorithms

Coding Challenge Scoring Rubrics

Published Technical Article Submission (9 points to pass)

	0 Did Not Meet Expectations	1 Met Some Expectations	2 Met Most Expectations	3 Met All Expectations	4 Exceeded Expectations
Technical Article Topic & Length ● **CS-related topic** ● **Must meet word length described in requirements document** *(~4 to 6-minute read on Medium)* ● **Must be published** ● **Must cite and link to source of ALL borrowed text**	Article is only an outline or meager rough draft OR topic is not related to CS OR whole article or large sections are copied from another source without citations.	Article written on CS-related topic, is a good start but both unpublished AND below length requirements.	Article written on CS-related topic, is almost finished but either unpublished OR below length requirements.	Article written on CS-related topic, is both published and meets length requirements.	Creative choice of topic that relates to CS ideas in an unexpected way OR article was republished in a group publication OR received 500+ claps on Medium.
		ALL borrowed text is in a quotation as well as cited and linked to its source.			
Technical Article Images & Code ● **Must have 3 relevant images or diagrams** ● **Must have a relevant working code sample** ● **Must cite and link to source of ALL borrowed images, diagrams, code**	Article has no images/diagrams AND does not have any code sample **OR** any images or code samples are copied without citations and links to their sources.	Article has some images/diagrams, but none are relevant to the topic presented OR article has a code sample but it includes obvious errors or is not relevant.	Article has 3 images/diagrams AND a code sample, but most are not relevant to the topic presented.	Article has 3 images/diagrams relevant to the topic and a relevant working code sample.	Article has 5 images/diagrams relevant to the topic and at least 3 are original and created by author.
		ALL borrowed images, diagrams, and code are cited and linked to their sources.			
Technical Article Feedback to Others ● **Must give relevant and actionable feedback on two other students' articles.**	Did not give feedback to any students or there is no evidence of feedback.	Gave feedback to another student, but the feedback given was not relevant nor actionable.	Gave relevant and actionable feedback to one other student OR gave feedback to two students, but it was not relevant nor actionable.	Gave relevant and actionable feedback to two other students.	Gave excellent feedback to multiple other students AND directly helped them improve their articles.