

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 <ul style="list-style-type: none">• ≥ 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 <ul style="list-style-type: none">• 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 |

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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 <ul style="list-style-type: none"> CS-related topic Must meet word length described in requirements document (<i>~4 to 6-minute read on Medium</i>) 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. |