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| **CodeAIR Remix Standards Rubric** | | | |
| **Standard** | **Basic (3)** | **Proficient (4)** | **Mastered (5)** |
| **Documentation** |  |  |  |
| 3A-AP-23 Document design decisions using text, graphics, presentations, and/or demonstrations in the development of complex programs. | Incomplete documentation. | Documentation provided for each process. | Documentation provided for each process. Evidence of revisions and improvements made. |
| **Algorithms and Programming** |  |  |  |
| 3A-AP-14 Use lists to simplify solutions, generalizing computational problems instead of repeatedly using simple variables. | No use of lists where appropriate. | List used somewhat inconsistently. | Lists are correctly used to make code more efficient. |
| 3A-AP-17 Decompose problems into smaller components through systematic analysis, using constructs such as procedures, modules, and/or objects. | No procedures; procedures not named appropriately. | Procedures used and named correctly in most instances. | Procedures used efficiently to organize code and reused as needed. |
| 3A-AP-18 Create artifacts by using procedures within a program, combinations of data and procedures, or independent but interrelated programs. | No procedures; procedures not named appropriately. | Procedures used and named correctly in most instances. | Procedures used efficiently to organize code and reused as needed. |
| **Computing Systems** |  |  |  |
| 3A-CS-02 Compare levels of abstraction and interactions between application software, system software, and hardware layers. | No hardware used; hardware does not collect or exchange data correctly. | Hardware and software components incorporated; collects and exchanges data inconsistently. | Hardware and software components are incorporated; collects and exchanges data consistently. |
| **Collaboration** |  |  |  |
| 3A-AP-19 Systematically design and develop programs for broad audiences by incorporating feedback from users. | No peer review completed. | Project underwent peer review. Feedback was not incorporated. | Project underwent peer review. Each piece of feedback was evaluated for its merits and incorporated when appropriate. |
| 3A-AP-22 Design and develop computational artifacts working in team roles using collaborative tools. | Team members did not work together; strengths or suggestions of each member were not incorporated. | Team members usually worked effectively as a team; strengths and ideas of each member were incorporated somewhat unequally. | Team members worked together equally and effectively; the strengths and ideas of each member were incorporated. |
| **Debugging** |  |  |  |
| 3A-CS-03 Develop guidelines that convey systematic troubleshooting strategies that others can use to identify and fix errors. | Code bugs not identified; little or no documentation of fixes. | Code bugs mostly identified and fixed; adequate documentation of fixes. | Code bugs identified and fixed; extensive documentation of fixes. |
| **Presentation** |  |  |  |
| 3A-AP-15 Justify the selection of specific control structures when tradeoffs involve implementation, readability, and program performance, and explain the benefits and drawbacks of choices made. | All team members are not able to describe program development and choices. | All team members are able to explain most program development and choices. | All team members are able to extensively explain program development and choices, as well as demonstrate each component and line of code. |

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