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| **AREA** | **NOT PROFICIENT** | **PROGRESSING** | **PROFICIENT** | **MASTERY** |
| **Presentation**  Did the student(s) demonstrate a solid understanding of the software for project development? | No understanding of the software for project development. | Some understanding of the basic use of the software for project development. | Competence in the use of software for project development. | Mastery in the use of software for project development. |
| **Formatting**  Is the code arranged in an orderly and logical manner? | None of the code is lined up on the left side of the page with no indentations. | Some of the code is line up on the left side of the page and some of the indentation is consistent. | Most of the code is lined up on the left side of the page and most of the indentation is consistent. | All of the code is lined up on the left side of the page and all of the indentation is consistent. |
| **Source Code Documentation**  Is written text present that either explains how the code operates or how to use it? | No comments are present in the code. | Few, if any comments are present in the code or comments do not explain the code. | Some comments are present in the code and most comments explain the code. | Comments are used in appropriate places and describe the intent of the code. |
| **Execution/Performance**  How well does the program perform? | None of the program executes. | Program executes with some errors. Program handles few special cases and little testing has been completed. | Program executes with few errors. Program handles some special cases and some testing has been completed. | Program uses solution that is easy to understand and maintain. Programmer has analyzed many alternate solutions and has chosen the most efficient. Programmer has included the reasons for the solution. |
| **Specifications**  Does the program meet the specifications for the assignment? | The program does not follow the assignment description. | The program follows some of the assignment description. | The program follows most of the assignment description. | The program follows all of the assignment description. |
| **Software Usage**  Was the software suitable for the project? | Software used was not appropriate for the project. | Some of the software used was appropriate for the project. | Software used was appropriate and enhanced the project. | Mastery in the choice and use of software to enhance the project. |
| **Efficiency**  How efficient did the operations function to achieve the solution? | Program was not efficient. | Program uses logical solution that is easy to follow but it is not the most efficient. Programmer has considered alternate solutions. | Program uses and efficient and easy to follow solution (no confusing tricks). Programmer has considered alternate solutions and has chosen an efficient one. | Program uses outstanding solution that is easy to understand and maintain. Programmer has analyzed many alternate solutions and has chosen the most efficient. |
| **Comments:** | | | | |

This category is an on-site event in which one student is given a series of problems that she/he must solve during the two hour competition time. Each individual will be awarded points for each problem solved correctly. Programs will be judged on structure, design and organization. Each contestant must be able to enter their programming code, execute the solutions to the problems and save them as directed by the judges.

\*\* Regarding the challenge in teams- it is the same as the individual challenge described above except that teams of two members may participate. Winners in this category receive separate awards from the Individual Programming Challenge.