Rubric for student outcome 1c: Pseudo-Code Breakdown

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|  | **Performance Indicators** | **Below standard** | **Meets standard** | **Above standard** | **Exemplary performance** |
| 1 | Identification of variables | Fails to provide relevant variables or only identifies major variables. | Identifies most of the major and minor variables. | Identifies most major and minor variables, and provides indication of values and equations. | Identifies major and minor values, provides values and equations; discusses variables to store/access data (arrays or matrices)  |
| 2 | Organization of code into steps | Gives no or only a vague overview of steps to perform 1D analysis. | Gives overview of steps necessary to perform 1D analysis, mentions use of if statements for handling conditions and loops for iterations. | Indicates most necessary steps for analysis, mentions use of coding mechanisms, connects relevant variables to steps. | Elaborates on all necessary analysis steps, provides thorough descriptions of code to be utilized, puts variables into coding context. |
| 3 | Code/Process Functionality | Overview does not provide enough information to demonstrate understanding of analysis process. | Shows general understanding of steps to be taken to run the analysis. | Shows understanding of 1D FEM analysis. Code-specifics may have minor errors. | Demonstrates thorough understanding of 1D FEM. Code examples are variable specific and have few errors. |