**Problem 1.1.7.RU Greenfoot Game (20 project points)**

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|  | **4** | | **3** | | **2** | | **1/0** |
| Challenge | Program shows a desire to ‘push the limits’ of the user’s programming skills. The code accomplishes its basic goals and piles on a few extraordinary features. | | Program shows a desire to use more advanced learned programming skills. The code accomplishes its basic goals well and piles on extra features. | | Program does not demonstrate a desire to utilize advanced learned programming skills. The code accomplishes its basic goals only. | | Program does not demonstrate a desire to utilize all skills. The code does not accomplish its basic goals or ‘aims too low.’ |
| Collaboration | Provides helpful original input to others  Promotes positive, productive, and respectful team dynamic  Encourages and incorporates input from others | | Provides adequate original input to others  Maintains positive, productive, and respectful team dynamic  Positively incorporates input from others | | Significant but limited input  Usually maintains positive, productive, and respectful team dynamic  Receives input from others | | Limited input  Is not promoting positive, respectful, or productive team dynamic  Discourages or is unresponsive to input from others |
| Appropriate Algorithm | Code demonstrates use of appropriate algorithms - including four or more classes, if structures, and if else structures. | | Code mostly uses appropriate algorithms - including four or more classes, if structures, and if else structures. | | Code often uses appropriate algorithms | | Code does not use appropriate algorithms or algorithms are extensively copied. |
| Explanation of Algorithms | Documentation (comments) clearly and thoroughly explains the algorithm(s). Javadocs use proper tags. | | Documentation explains the algorithm(s). Javadocs use proper tags. | | Documentation insufficiently explains algorithm (Ex: algorithm is simply identified) | | Explanation of Algorithm is missing |
| Commenting | Project contains extensive evidence of planning in pseudocode and comments in all appropriate places. A proper header is included. | | Project contains evidence of planning in pseudocode and comments in most appropriate places. A proper header is included. | | Project contains some evidence of planning in pseudocode and comments in some appropriate places. A proper header is included. | | Any of the following: Project contains little evidence of planning in pseudocode and few or no comments. A proper header is not included. |
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