| **(a)** | cleanData |  |  |
| --- | --- | --- | --- |
|  | **Scoring Criteria** | **Decision Rules** |  |
| **1** | Traverses temperatures (*no bounds errors*) | Responses **can** still earn the point even if they  • do a forward traversal of the list  • skip a value because removal from the list is handled incorrectly  • use an enhanced for loop, as long as the list element is used in the body of the loop    Responses **will not** earn the point if they  • fail to ever access an element of  temperatures in the loop  • access the elements of temperatures  incorrectly | **1 point** |
| **2** | Determines whether an element of temperature list should be removed, using lower and upper | Responses **can** still earn the point even if they  • access elements of temperature list incorrectly    Responses **will not** earn the point if they  • apply incorrect comparison (< vs <=) or logic (|| vs &&) to identify elements of list for removal | **1 point** |
| **3** | Calls remove (or equivalent) on temperature list with an appropriate parameter | Responses **can** still earn the point even if they  • add the element to a new ArrayList that is not declared, is declared incorrectly, or is not assigned to the instance variable, as long as the order of elements is maintained    Responses **will not** earn the point if they  • call remove or add incorrectly | **1 point** |
| **4** | Removes all and only identified elements of temperature list (*algorithm*) | Responses **can** still earn the point even if they  • call remove incorrectly  • access the elements of temperature list incorrectly    Responses **will not** earn the point if they  • add elements to a new ArrayList that is not declared, is declared incorrectly, or is not assigned to the instance variable  • skip a temperature list element in the traversal because removal is not handled correctly | **1 point** |
|  |  | **Total for part (a)** | **4 points** |

| **(b)** | longestHeatWave |  |  |
| --- | --- | --- | --- |
|  | **Scoring Criteria** | **Decision Rules** |  |
| **5** | Traverses temperatures (*no bounds errors*) | Responses **will not** earn the point if they  • fail to access an element of  temperatures in the loop  • access the elements of temperatures  incorrectly | **1 point** |
| **6** | Compares an element of temperature list to threshold (*in the context of a loop*) | Responses **can** still earn the point even if they  • always compare threshold to the same list element    Responses **will not** earn the point if they  • apply incorrect comparison (> vs >=) to identify heat wave days | **1 point** |
| **7** | Initializes and increments the length of a  heat wave (*in the context of a loop or condition*) | Responses **can** still earn the point even if they  • fail to reset the length of the current heat wave when the heat wave ends | **1 point** |
| **8** | Determines the length of at least one heat wave (*algorithm*) | Responses **will not** earn the point if they  • fail to reset the length of the current heat wave when the heat wave ends | **1 point** |
| **9** | Identifies the longest heat wave and returns its length (*algorithm*) |  | **1 point** |
|  |  | **Total for part (b)** | **5 points** |
|  | **Question-specific penalties** |  |  |
|  | None |  |  |
|  |  | **Total for question 3** | **9 points** |