*italics* denote abstract step

↻ indicates abstract step contains loop

Notes/Ideas:

Consider making the Grade Classification Totals variables global to all modules above level 0 to avoid using six or more parameters.

|  |  |
| --- | --- |
| **Assign8**  *Process Grapefruit Information*  *Display Grapefruit Classification Totals* ↻  Determine value of each ‘X’ (This step will likely be a function)  *Display Grapefruit Classification Results* | **Level 0** |
| **Process Grapefruit Information**   |  |  | | --- | --- | | **in**  **out**  **in out** | None  GradeA\_Num, GradeB\_Num, GradeC\_Num, GradeD\_Num, GradeE\_Num, Rejected\_Num  None |   Loop  Get Diameter  Exit loop when Diameter <= 0  Get Condition  *Classify Grapefruit* ↻  Update proper count  End loop | **Level 1** |
| **Display Grapefruit Classification Totals**   |  |  | | --- | --- | | **in**  **out**  **in out** | GradeA\_Num, GradeB\_Num, GradeC\_Num, GradeD\_Num, GradeE\_Num, Rejected\_Num  None  None |   Put Headers  Put Labels  Put Totals | **Level 1** |
| **Display Classification Results**   |  |  | | --- | --- | | **in**  **out**  **in out** | GradeA\_Num, GradeB\_Num, GradeC\_Num, GradeD\_Num, GradeE\_Num, Rejected\_Num, X\_Value  None  None |   Put Headers  Put Labels  Put Totals | **Level 1** |
| **Classify Grapefruit** (Consider making into a function)   |  |  | | --- | --- | | **in**  **out**  **in out** | Diameter, Condition  Grade  None |   If Diameter >= 4.25  Grade := A  Else if Diameter >= 4  Grade := B  Else if Diameter >= 3.75  Grade := C  Else if Diameter >= 3.5  Grade := D  Else  Grade := E  End if  Loop | **Level 2** |