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Program Development: Nested Control Statements



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- Observations about the problem statement
 - Must process 10 test results—for and range
 - Each test result is a number—either a 1 or a 2
 - Two counters—one to count the number of students who passed the exam and one to count the number of students who failed
 - After processing all the results, must decide if more than eight students passed the exam to possibly bonus the instructor


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- Top:
 - *Analyze exam results and decide whether instructor should receive a bonus*
- First refinement:
 - *Initialize variables*
 - *Input the ten exam grades and count passes and failures*
 - *Summarize the exam results and decide whether instructor should receive a bonus*



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- Second Refinement:
 - *Initialize variables*

becomes

Initialize passes to zero
Initialize failures to zero





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- **Second Refinement:**

- *Summarize the exam results and decide whether instructor should receive a bonus*

becomes

Display the number of passes
Display the number of failures

If more than eight students passed
Display "Bonus to instructor"





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