Sample Program 1.2

Score A Quiz

Problem statement. Write an algorithm to conduct a 3-question quiz and record each student's score in a database. Include line numbers as needed.

Solution.

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10   Write the label "student ID" on a new piece of paper.

     Write the label "#of correct answers" on the piece of paper, and write
     the number 0 (zero) under the label.

     Ask the student to enter their student ID, and write it under the label
     "student ID".

     Show the first question to the student and await their answer.

     If the student's answer is NOT correct, branch to line 20

     Add 1 (one) to the number under the label "#of correct answers",
     replacing the number that was there before.

20   Show the second question to the student and await their answer.

     If the student's answer is NOT correct, branch to line 30

     Add 1 (one) to the number under the label "#of correct answers",
     replacing the number that was there before.

30   Show the third question to the student and await their answer.

     If the student's answer is NOT correct, branch to line 40

     Add 1 (one) to the number under the label "#of correct answers",
     replacing the number that was there before.

40   Say out loud "Very good! Your score is "

     Say the number written under the label "#of correct answers".

     Say " out of 3 total."

     Write to the database the numbers under the labels "student ID" and
     "#of correct answers"

     If there are more students waiting to take the quiz, loop back to 10

     Say "The quiz has ended. Class dismissed."
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