

2026-04-30

0/3p

1.

This is an exam question, but today we are not focusing on getting it perfect.

We are using it as a reflection to understand what a full-mark answer looks like and how to improve our thinking.

### Question 2(b)

Consider the procedure and procedure call identified in parts (i) and (ii) of the Procedure section of your Personalized Project Reference. Describe the outcome that your procedure call is intended to produce. Write a new procedure call with at least one different argument value that will produce the same outcome, if possible, and explain why this procedure call produces the same outcome. If it is not possible to write a new procedure call that produces the same outcome, explain why this is not possible.

No student answer.

a) Reflection 1

**What output or effect does the original procedure call produce? Describe the result, not the code.**

**Answer:**

The call renders the blocks in the game board on-screen, centered in the middle.

14 words

Correct answer.

-/1p

b) Reflection 2

**Write a new procedure call with a different argument and explain why it produces the same outcome — or explain why this is not possible.**

**Answer:**

It is not possible to write a call with different arguments that produces the same outcome. The ``bd`` argument encapsulates state about the current OpenGL context, which there is only one of, and so this argument cannot be meaningfully changed. ``cm`` stores the size of the window, which affects how the coordinates are transformed into OpenGL Normalized Device Coordinates, however any change to this information will cause the blocks to be moved and stretched, producing a different result. Finally, ``base`` determines the position of the board drawn, and any changes to this will move the blocks.

96 words

Correct answer.

-/1p

c) Your final answer to the exam question

**Answer:**

The given procedure call renders the blocks in the game board on-screen, centered in the middle. It is not possible to write a call with different arguments that produces the same outcome. The `bd` argument encapsulates state about the current OpenGL context, which there is only one of, and so this argument cannot be meaningfully changed. `cm` stores the size of the window, which affects how the coordinates are transformed into OpenGL Normalized Device Coordinates, however any change to this information will cause the blocks to be moved and stretched, producing a different result. Finally, `base` determines the position of the board drawn, and any changes to this will move the blocks.

112 words

Correct answer.

-/1p

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No student answer.

a) Reflection 1

**What output or effect does the original procedure call produce? Describe the result, not the code.**

**Answer:**

The effect of my original procedure call produces the letter grade for each course based on number, so the corresponding result is "A", "B", or "F".

26 words

Correct answer.

-1p

b) Reflection 2

**Write a new procedure call with a different argument and explain why it produces the same outcome — or explain why this is not possible.**

**Answer:**

One of the outcome of my procedure call is letter grade of "A" if scores are above 90 for each course like if a students input "98" for one of their courses. A new procedure call can be "96", which also satisfy the condition of if scores above 90, so this call also produce an letter grade of "A".

59 words

Correct answer.

-/1p

c) Your final answer to the exam question

**Answer:**

The effect of my original procedure call produces the letter grade for each course based on number, so the corresponding result is "A", "B", or "F". One of the outcome of my procedure call is letter grade of "A" if scores are above 90 for each course like if a student's input "98" for one of their courses. A new procedure call can be "96", which also satisfies the condition of if scores above 90, so this call also produces a letter grade of "A".

85 words

Correct answer.

-/1p

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No student answer.

a) Reflection 1

**What output or effect does the original procedure call produce? Describe the result, not the code.**

**Answer:**

call another procedure to go to the final page

9 words

Correct answer.

-/1p

b) Reflection 2

**Write a new procedure call with a different argument and explain why it produces the same outcome — or explain why this is not possible.**

**Answer:**

addition(5)  
this call can produce the same outcome because the final page is depends on the number of question that users get correct. Therefore, different input can cause same output.

31 words

Correct answer.

-/1p

c) Your final answer to the exam question

**Answer:**

My outcome of this procedure is to call another procedure and produce the final page(how much question does the user get correct). In this case, different input value can cause same output. For example, is I call my procedure "addtion(5)" instead of "addtion(3)", the outcome will only depends on the number of questions that the user gets correct. Therefore, a different procedure call can produces same outcome.

70 words

Correct answer.

-/1p