

<u>Course</u> > <u>7b: Local</u> > <u>Lexical Scoping</u> > Questions 1-5

Questions 1-5

Question 1

1/1 point (graded)

Which of the following scope contours is correct for this program?



Explanation

The definitions that are recorded in the scope of the whole program (blue) are a and b, and the definitions that are recorded in the scope of the local expression (red) are a and foo, since they are defined inside the local expression.

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1 Answers are displayed within the problem

Question 2

1/1 point (graded)

Consider the following program:

Which of the following is the correct reference for the circled a?



Explanation

Using scope contours:

The reference should go to the definition of a in the nearest closing box, which is (define a 1) in this case.

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Question 3

1/1 point (graded)

Which of the following is the correct reference for the circled a?



Explanation

Using scope contours:

The reference should go to the definition of a in the nearest closing box, which is (define a 2) in this case.

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Question 4

1/1 point (graded)

Which of the following is the correct reference for the circled b?



Explanation

Using scope contours:

The reference should go to the definition of b in the nearest closing box, which is (define b (+ 1 a) in this case.

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Question 5

1/1 point (graded)

Which of the following is the correct reference for the circled $\ensuremath{\mathbf{b}}\xspace?$



Explanation

Using scope contours:

The reference should go to the definition of b in the nearest closing box, which is (define b 3) in this case.

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• Answers are displayed within the problem

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