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Question 3

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```
1/1 point (graded)
```

```
(define (foo x)
  (local [(define (bar y) (+ x y))]
        (+ x (bar (* 2 x)))))
(list (foo 2) (foo 3))

(define (bar_0 y) (+ 2 y))
        (local [(define (bar y) (+ 2 y))]
        (foo 3))
```

What is the result of the next step of the evaluation?

```
(define (bar_0 (+ 2 y))
(list (+ 2 (+ 2 (* 2 2)))
(foo 3))
```



Explanation

Before we replace the function call expression (bar_0 (* 2 2)) with the body of the function, we must first evaluate the argument (* 2 2) to 4.

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• Answers are displayed within the problem