

Quiz 2

This quiz is due by 10AM Eastern Time, September 12, 2012

***Obligatorio**

Enter your course pin: *

What is the result of substituting (numC 10) for x in (plusC (numC 3) (multC (numC 4) (numC 5)))?

- ☐ (plusC (numC 3) (multC (numC 4) (numC 5)))
- ☐ (plusC (multC (numC 3) (numC 4)) (numC 5))
- ☐ (numC 10)
- ☐ (numC 23)

What is the result of substituting (numC 10) for x in (plusC (numC 3) (multC (idC 'x) (idC 'x)))? *

- ☐ (plusC (numC 3) (multC (idC 'x) (idC 'x)))
- ☐ (plusC (numC 3) (multC (numC 10) (idC 'x)))
- ☐ (plusC (numC 3) (multC (numC 10) (numC 10)))
- ☐ (numC 103)

What is the result of substituting (numC 10) for x in (plusC (idC 'w) (multC (idC 'z) (idC 'y)))? *

- ☐ (plusC (idC 'w) (multC (idC 'z) (idC 'y)))
- ☐ (plusC (idC 'w) (multC (idC 'z) (numC 10)))
- ☐ (plusC (numC 10) (multC (numC 10) (numC 10)))
- ☐ (numC 110)

The next two questions deal with the definitions of f1 and f2 in Racket below, and the subsequent 4 representations as a list of FunDefs

```
(define (f1 x) (f2 10))
(define (f2 x) (f1 5))
```

A.

```
(list
 (FunDefC 'f1 'x (appC 'f2 (numC 10)))
 (FunDefC 'f2 'x (appC 'f1 (numC 5))))
```

B.

```
(list  
  (FunDefC 'f2 'x (appC 'f1 (numC 5)))  
  (FunDefC 'f1 'x (appC 'f2 (numC 10))))
```

C.

```
(list  
  (FunDefC 'f1 'x (appC 'f2 (numC 10)))  
  (FunDefC 'f1 'x (appC 'f2 (numC 10)))  
  (FunDefC 'f2 'x (appC 'f1 (numC 5))))
```

D.

```
(list  
  (FunDefC 'f1 'x (appC 'f2 (numC 11)))  
  (FunDefC 'f1 'x (appC 'f2 (numC 10)))  
  (FunDefC 'f2 'x (appC 'f1 (numC 5))))
```

Which of A-D is a faithful representation of the Racket program in our language? Choose ALL that apply. *

- ☐ A
- ☐ B
- ☐ C
- ☐ D

What happens when we run the interpreter on the expression (appC 'f1 (numC 20)) and the correct representation's list of FunDefs? *

- ☐ Error: "reference to undefined function" because of failing to lookup f1
- ☐ Error: "reference to undefined function" because of failing to lookup f2
- ☐ The interpreter runs forever (or until we run out of space or some other resource)
- ☐ None of the above

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