

Computer Science I

CMPE/CSCI 1370 - 01

MW 9:25 am - 10:40 am

<http://bit.ly/1370abcde>

What is the type of the following expression:

```
(>= (+ (string-length "hello world")  
        60) 80)
```

A. number

B. string

C. boolean

D. image

E. syntax error

Homework 1!

Due Friday, 7 Sep

| Percentage | |
|------------------------|-------------|
| In-class participation | 10% |
| Reading quizzes | 10% |
| Lab | 10% |
| Homework | 25% |
| Exam 1 | 12.5% |
| Exam 2 | 12.5% |
| Final Exam | 20% |
| Total | 100% |

| Percentage | Final grade |
|------------|-------------|
| 90-100% | A |
| 80-89% | B |
| 70-79% | C |
| 60-69% | D |
| 0-59% | F |

```
(define (grade class quiz lab hw exam1 exam2 final)
  (+
    (* class 0.1)
    (* quiz 0.1)
    (* lab 0.1)
    (* hw 0.25)
    (* exam1 0.125)
    (* exam2 0.125)
    (* final 0.2)))
```

```
(define (fn-name param1 param2)  
  body-expr)
```

```
(fn-name "a" "b")
```

Identify the function name, parameter, argument, body and call

```
(define (f n)
  (* n n))

(f 5)
```

1. (f 5)

2. 5

3. f

4. n

5. (* n n)

What is the value of the following expression?

```
(define (calculate w x y)
  (+ x (+ w 1) 3))

(calculate 3 2 0)
```

1. 5

2. 9

3. 0

4. 3

5. None of the above

What is the value of the following expression?

```
(define (double x)
  (* 2 x))

(Double 3)
```

1. 6
2. 9
3. 0
4. 3
5. None of the above

```
(define (double x)
  (* 2 x))

(define (double y)
  (* y y))

(double 3)
```

1. 6

2. 9

3. 0

4. 3

5. None of the above

```
(define (double x)
  (* 2 x))

(define (square x)
  (* x x))

(double 3)
(square 5)
```

1. 6 9

2. 6 25

3. 10 25

4. 10 9

5. None of the above

Statements vs Expressions

side-effects vs values

Your turn:

- split-bill
- greeter
- pizzas

Next meeting: Design recipe