

To prepare for this Online Homework Session, see if you can spot the logic errors in these example code fragments. The answers will be provided during the session.

1.

```
PROCEDURE countOccurrences()  
RECEIVE itemToFind FROM (INTEGER) KEYBOARD  
SET numberFound TO 0  
FOR EACH number FROM numbers DO  
    IF number = itemToFind THEN  
        SET numberFound TO numberFound + 1  
    END IF  
END FOR EACH  
SEND "There were " & numbersFound & "occurrences of " &  
    itemToFind & " in the list" TO DISPLAY  
END PROCEDURE
```

2.

```
IF salary > 30000 THEN  
    SET taxCode TO 2  
END IF  
IF salary < 30000 THEN  
    SET taxCode TO 1  
END IF
```

3.

```
PROCEDURE totalNumbers()  
DECLARE list AS ARRAY OF INTEGER INITIALLY []  
FOR counter FROM 0 TO 5 DO  
    DECLARE total AS INTEGER INITIALLY 0  
    SEND "Please enter value to add" TO DISPLAY  
    RECEIVE list[counter] FROM KEYBOARD  
    SET total TO total + list[counter]  
END FOR  
SEND "The total of the numbers entered was" & total TO  
DISPLAY  
END PROCEDURE
```

4.

```
PROCEDURE inputValidation()  
  REPEAT  
    RECEIVE userInput FROM (INTEGER) KEYBOARD  
    IF userInput < 0 OR userInput > 10 THEN  
      SEND "Input must be between 0 and 10" TO DISPLAY  
    END IF  
  UNTIL userInput >= 0 OR userInput <= 10  
END PROCEDURE
```

5.

```
PROCEDURE findMin (ARRAY OF INTEGER numbers)  
  SET minimumValue TO numbers[0]  
  FOR counter FROM 1 TO 9 DO  
    IF minimumValue > numbers[counter] THEN  
      SET minimumValue TO numbers[counter]  
    END IF  
  END FOR  
  SEND "The smallest value was " & minimumValue TO DISPLAY  
  SEND "Its position was " & counter TO DISPLAY  
END PROCEDURE
```

6.

```
SET list TO [74.33, -57.67, -72.33, 82.33, -8.56]  
SET amount TO 0  
FOR counter FROM 0 TO 3 DO  
  IF list[counter] < 0 THEN  
    SET amount TO amount + 1  
  END IF  
END FOR  
SEND amount TO DISPLAY
```