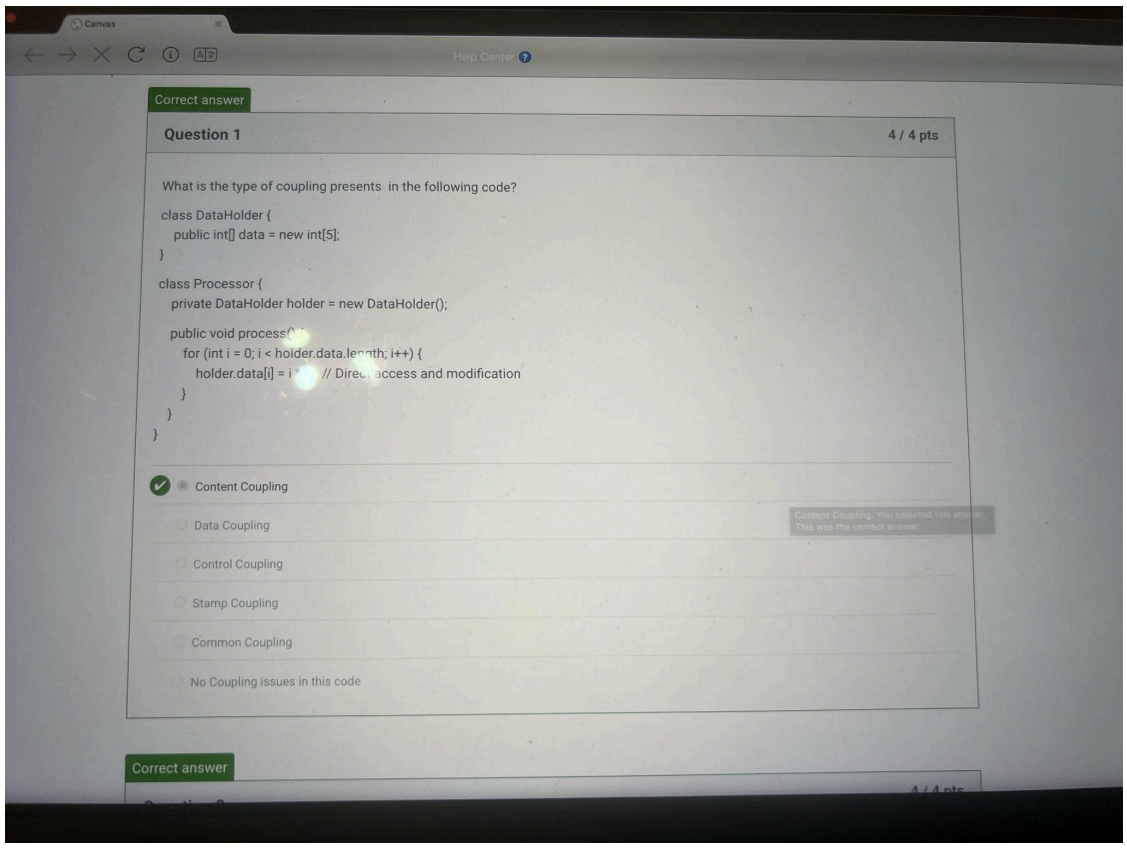
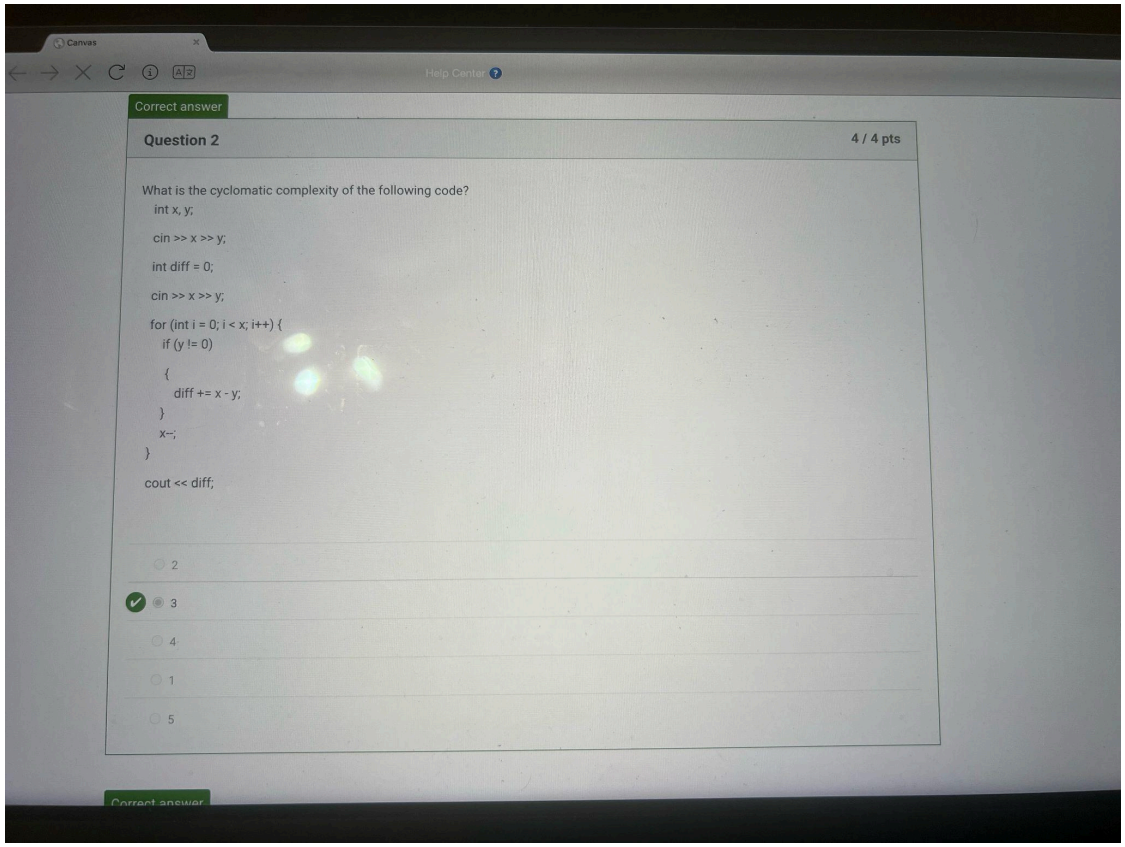
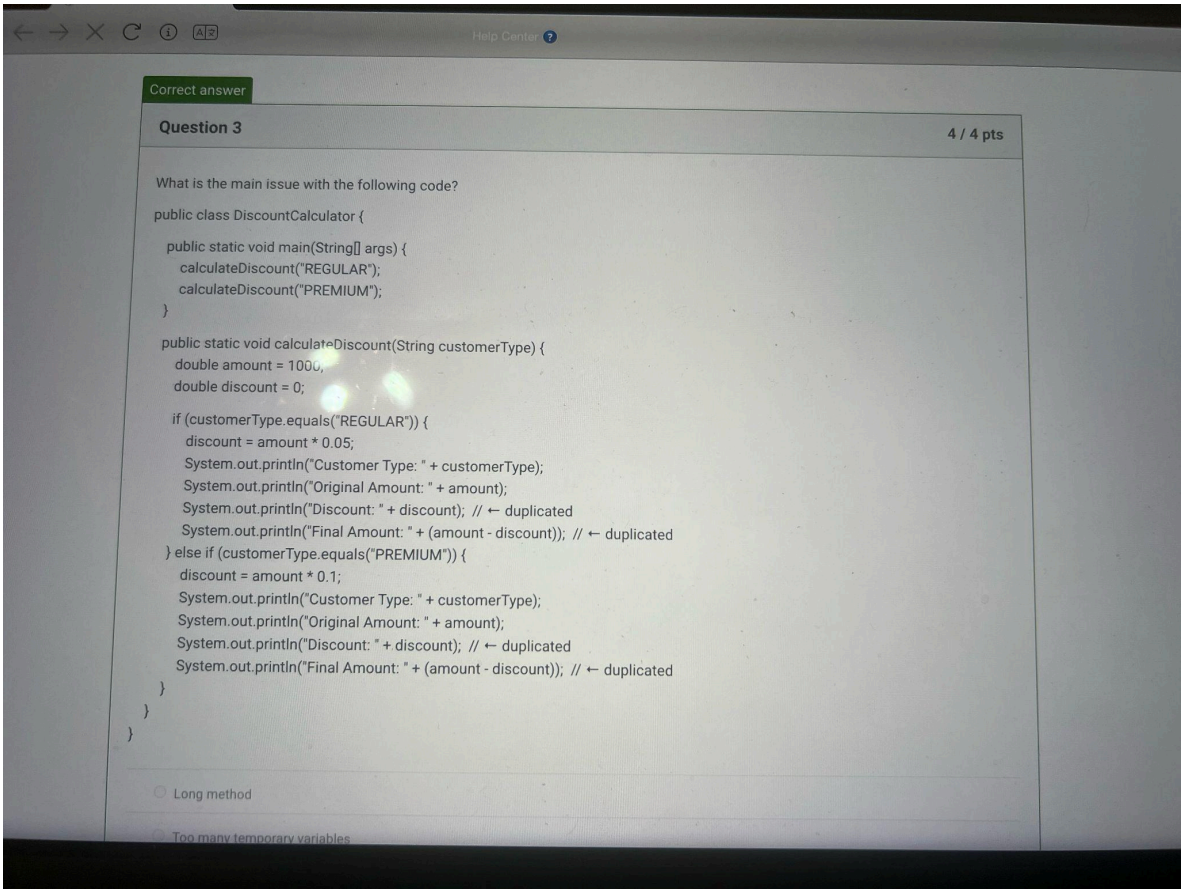

Canvas
Help Center
Correct answer
Question 1
4 / 4 pts
What is the type of coupling presents in the following code?
class DataHolder {
public int[] data = new int[5];
}
class Processor {
private DataHolder holder = new DataHolder();
public void process() {
for (int i = 0; i < holder.data.length; i++) {
holder.data[i] = i * 2; // Direct access and modification
}
}
}
Content Coupling
Data Coupling
Control Coupling
Stamp Coupling
Common Coupling
No Coupling issues in this code
Content Coupling. You selected this answer. This was the correct answer.
Correct answer


Canvas
Help Center
Correct answer
Question 2
4 / 4 pts
What is the cyclomatic complexity of the following code?
int x, y;
cin >> x >> y;
int diff = 0;
cin >> x >> y;
for (int i = 0; i < x; i++) {
if (y != 0)
{
diff += x - y;
}
x--;
}
cout << diff;
2
3
4
1
5



Help Center

Correct answer

Question 3 4 / 4 pts

What is the main issue with the following code?

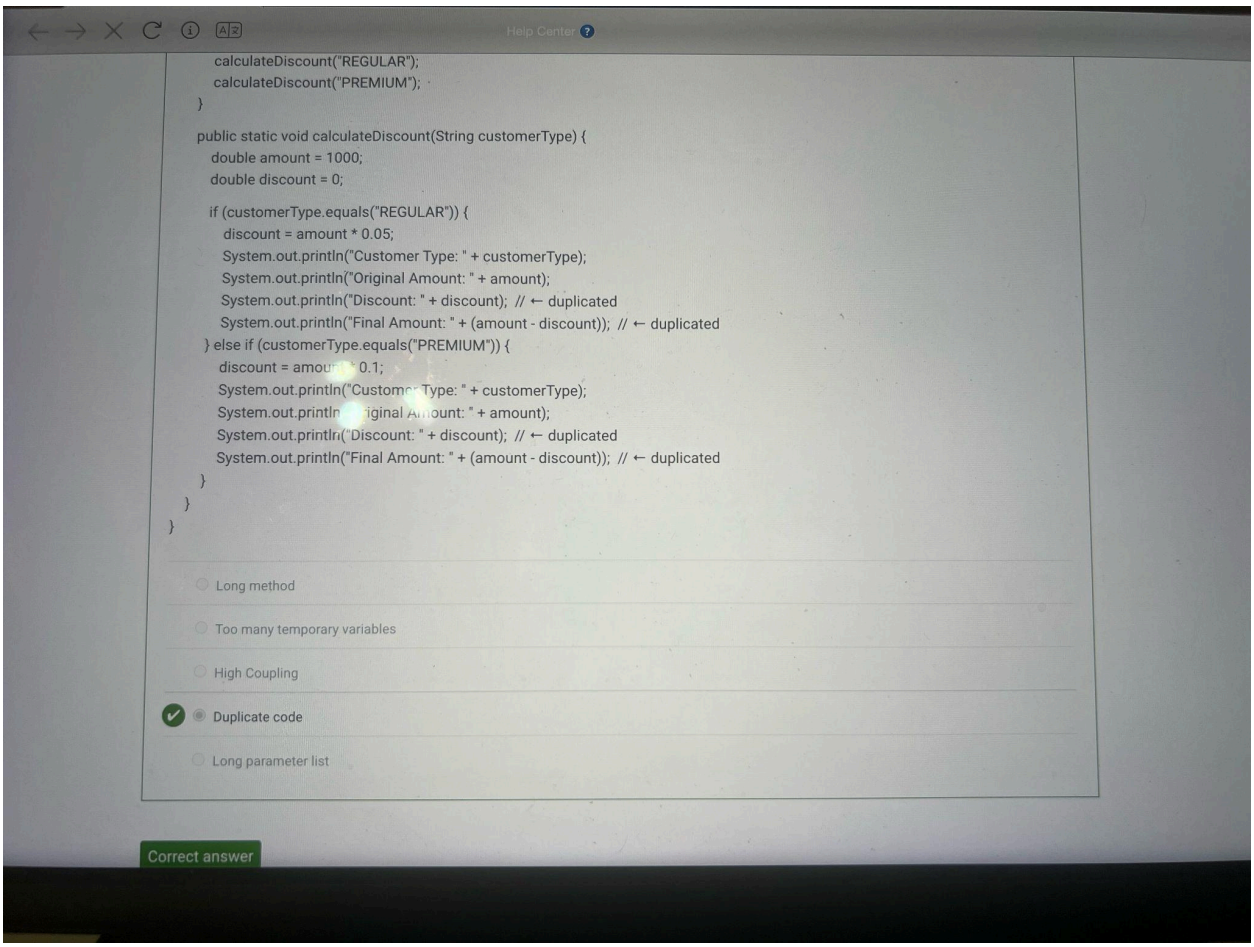
```
public class DiscountCalculator {

    public static void main(String[] args) {
        calculateDiscount("REGULAR");
        calculateDiscount("PREMIUM");
    }

    public static void calculateDiscount(String customerType) {
        double amount = 1000;
        double discount = 0;

        if (customerType.equals("REGULAR")) {
            discount = amount * 0.05;
            System.out.println("Customer Type: " + customerType);
            System.out.println("Original Amount: " + amount);
            System.out.println("Discount: " + discount);  // ← duplicated
            System.out.println("Final Amount: " + (amount - discount));  // ← duplicated
        } else if (customerType.equals("PREMIUM")) {
            discount = amount * 0.1;
            System.out.println("Customer Type: " + customerType);
            System.out.println("Original Amount: " + amount);
            System.out.println("Discount: " + discount);  // ← duplicated
            System.out.println("Final Amount: " + (amount - discount));  // ← duplicated
        }
    }
}
```

- Long method
- Too many temporary variables



Help Center

```
        calculateDiscount("REGULAR");
        calculateDiscount("PREMIUM");
    }

    public static void calculateDiscount(String customerType) {
        double amount = 1000;
        double discount = 0;

        if (customerType.equals("REGULAR")) {
            discount = amount * 0.05;
            System.out.println("Customer Type: " + customerType);
            System.out.println("Original Amount: " + amount);
            System.out.println("Discount: " + discount);  // ← duplicated
            System.out.println("Final Amount: " + (amount - discount));  // ← duplicated
        } else if (customerType.equals("PREMIUM")) {
            discount = amount * 0.1;
            System.out.println("Customer Type: " + customerType);
            System.out.println("Original Amount: " + amount);
            System.out.println("Discount: " + discount);  // ← duplicated
            System.out.println("Final Amount: " + (amount - discount));  // ← duplicated
        }
    }
}
```

- Long method
- Too many temporary variables
- High Coupling
- ✔ Duplicate code
- Long parameter list

Correct answer

Help Center

Long parameter list

Correct answer

Question 4 2 / 2 pts

According to C-K matrix, maximum recommended Number of Children per class is 10 .....(T/F)

- ✔ True
- False

Correct answer

Question 5 2 / 2 pts

Code refactoring is the process of modifying the code to add more functionality in increments....(T/F)

- True
- ✔ False

Correct answer

Question 6 3 / 3 pts

What is main issue with the following object design?

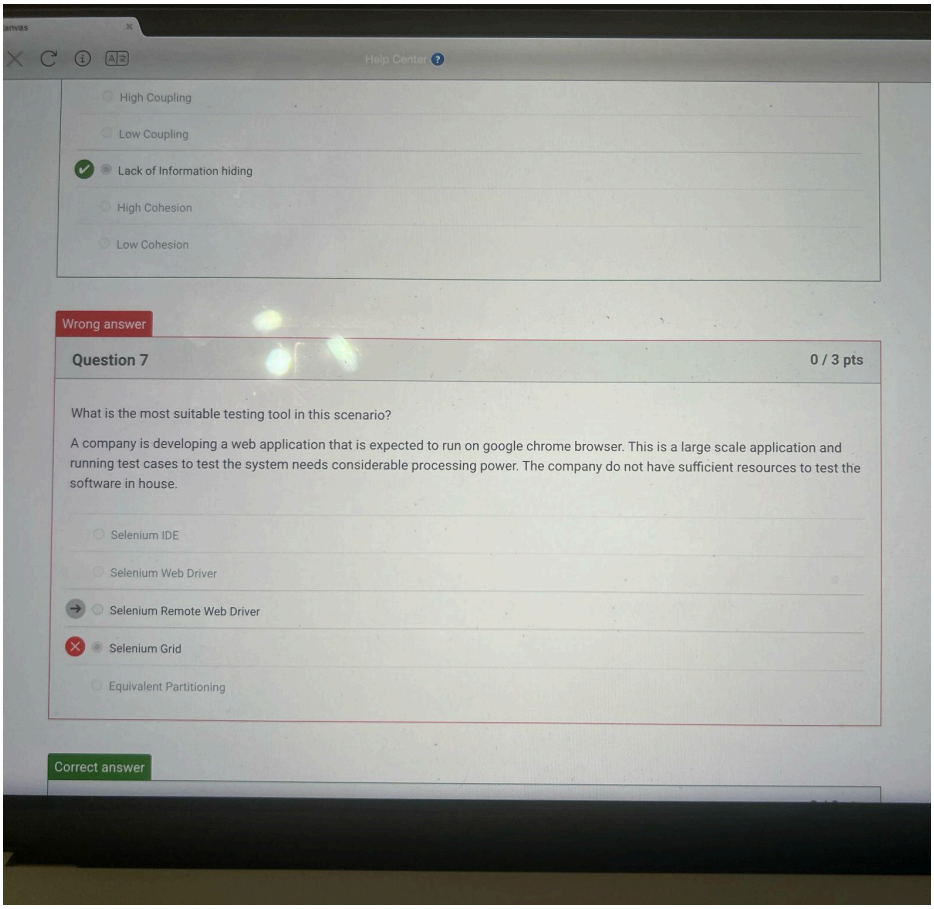
Correct answer

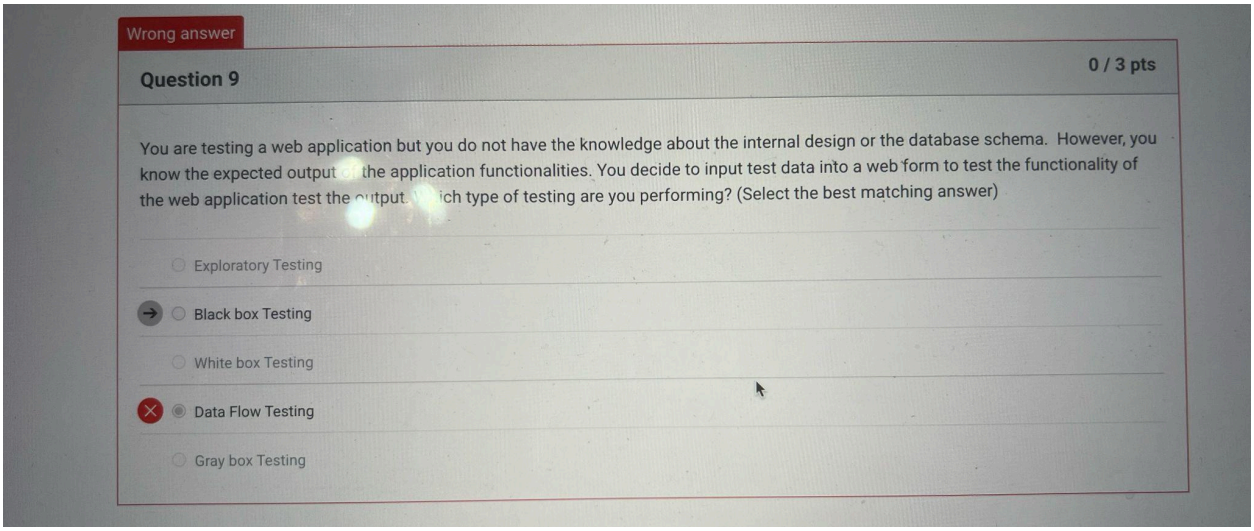
Question 6 3 / 3 pts

What is main issue with the following object design?

```
public class Vehicle{
  public string model;
  public double enginePower;
  public Vehicle()
  {
    enginePower = 0;
    model = "";
  }
  public void setInfo(string m, double e)
  {
     enginePower = e;
     model = m;
  }
}
```

- High Coupling
- Low Coupling
- ✔ Lack of Information hiding
- High Cohesion


Help Center
High Coupling
Low Coupling
Lack of Information hiding
High Cohesion
Low Cohesion
Wrong answer
Question 7
0 / 3 pts
What is the most suitable testing tool in this scenario?
A company is developing a web application that is expected to run on google chrome browser. This is a large scale application and running test cases to test the system needs considerable processing power. The company do not have sufficient resources to test the software in house.
Selenium IDE
Selenium Web Driver
Selenium Remote Web Driver
Selenium Grid
Equivalent Partitioning
Correct answer


Wrong answer
Question 9
0 / 3 pts
You are testing a web application but you do not have the knowledge about the internal design or the database schema. However, you know the expected output of the application functionalities. You decide to input test data into a web form to test the functionality of the web application test the output. Which type of testing are you performing? (Select the best matching answer)
Exploratory Testing
Black box Testing
White box Testing
Data Flow Testing
Gray box Testing

Canvas

Help Center

Question 10 2 / 3 pts

Dataflow testing consists of several steps including: Label the source code nodes, develop the control flow graph, annotate the control flow graph with Definition, Usage sets for each node ...etc. Which of the following are examples of definition for variable X ? (select all that apply)

- [x] int X = 0
- [x] cin >> X
- [ ] cout << X
- [ ] X++

Correct answer

Question 11 4 / 4 pts

Consider the following printStars class that display start for each 100 for all the data items in the data array. What us the main issue in code?

```
import java.util.Scanner;
public class printStars
{
  public static void main(String[] args)
  {

      int [] data = {200, 678, 184};

    // Print srars
    System.out.println(" \n " + "    Stars \n " + "  (each * = 100)\n");
```

Help Center

```
    int [] data = {200, 678, 184};

  // Print srars
  System.out.println(" \n " + "    Stars \n " + "  (each * = 100)\n");


  System.out.print(" \n\n Data Item 1: ");
  for (star = 1; star <= data[i]/100; star++)
    System.out.print('*');

      System.out.println();

  System.out.print(" \n \n Data Item 2: ");
  for (star = 1; star <= data[i]/100; star++)
    System.out.print('*');

      System.out.println();


 System.out.print(" \n\n Data Item 3: ");
 for (star = 1; star <= data[i]/100; star++)
   System.out.print('*');

       System.out.println();
  }
}
```

- [ ] Information hiding
- [ ] High coupling
- [ ] Lack of Cohesion
- [x] Duplicate code
- [ ] Low coupling

Help Center

Correct answer

Question 12 3 / 3 pts

Which of the following code snippets correctly uses **Selenium WebDriver in Java** to load a website and click a button with the ID `"submitBtn"`?

A)

```
WebDriver driver = new ChromeDriver();
driver.get("http://webstrar99.fulton.asu.edu/");
driver.findElement(By.name("submitBtn")).click();
```

B)

```
WebDriver driver = new ChromeDriver();
driver.load("http://webstrar99.fulton.asu.edu/");
driver.findElement(By.name("submitBtn")).click();
```

C)

```
WebDriver driver = new ChromeDriver();
driver.get("http://webstrar99.fulton.asu.edu/");
driver.findElement(By.id("submitBtn")).click();
```

D)

```
WebDriver driver = new ChromeDriver();
driver.load("http://webstrar99.fulton.asu.edu/");
driver.findElement(By.id("submitBtn")).click();
```

Select A, B, C or D

- A
- B
- ✔ C
- D

Correct answer

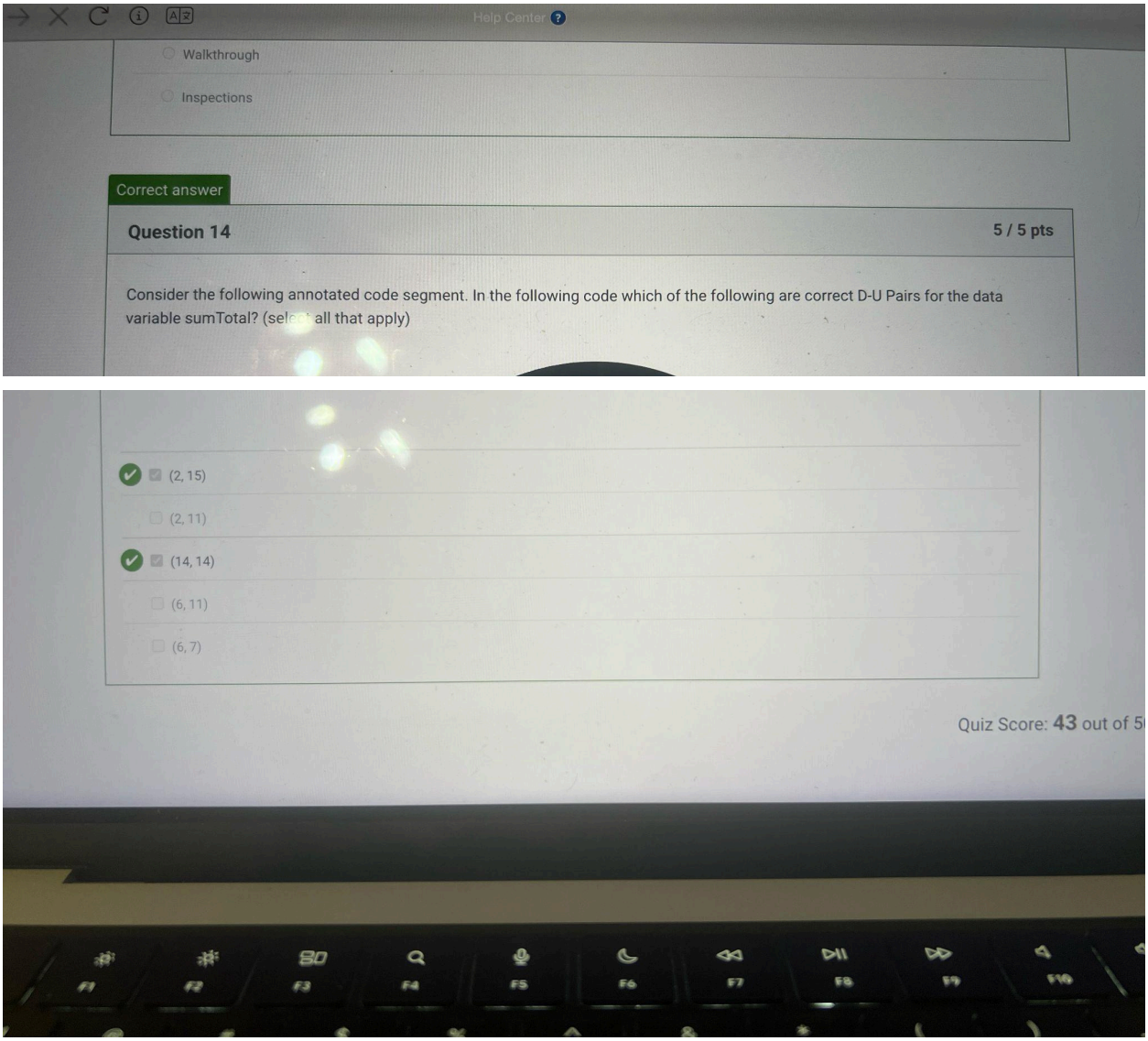
Question 13 2 / 2 pts

Which of the following review type focus on the status of plans and schedules, confirms requirements and their system allocation?

- ✔ Management Review
- Code view
- Audit
- Technical Review
- Walkthrough
- Inspections

Correct answer

Question 14 5 / 5 pts


Help Center
Walkthrough
Inspections
Correct answer
Question 14
5 / 5 pts
Consider the following annotated code segment. In the following code which of the following are correct D-U Pairs for the data variable sumTotal? (sel all that apply)
(2, 15)
(2, 11)
(14, 14)
(6, 11)
(6, 7)
Quiz Score: 43 out of 5