Assignment 8

Due on 2020-02-03, 23:59 UTC.

1. Write a class for representing the following code:
   ```java
   a = (int) (rand() * 5.0);
   y = (int) (rand() * 5.0);
   x = (int) (x / y);
   y = (int) (rand() * 5.0);
   dx = x - t * a;
   dy = y - t * a;
   dx = (int) (dx / t);
   dy = (int) (dy / t);
   ```
   1 point

2. What will be the value of `dx`? If we assume the previous code:
   1 point

3. What will be the value of `dx`? If we assume the previous code:
   1 point

4. Possible answers for answering the following questions. Write down the output of the code before testing if you gave a 0.0 answer:
   - 8
   - 10
   - 9
   - 33
   1 point

5. What is the length of time after the 1st approach during the testing process?
   - 0.01
   - 0.011
   - 0.012
   - 0.013
   1 point

6. What is the length of time after the 0.012 approach?
   - 0.002
   - 0.007
   - 0.013
   - 0.014
   1 point

7. What is the length of time after the 0.012 approach if the testing time was 0.012?
   - 0.002
   - 0.007
   - 0.013
   - 0.014
   1 point

8. What is the length of time after the 0.012 approach if the testing time was 0.013?
   - 0.002
   - 0.007
   - 0.013
   - 0.014
   1 point

9. Suppose you have 4 MB in memory. How many MB can be used for your student project? How much will be left for each additional 1 MB of storage? What will be the best approach to check for one device using binary search? We want...
   - 1 MB
   - 10 MB
   - 80 MB
   - 20 MB
   1 point

10. Write the answer to your question:
    1 point

11. Possible answers for answering the following statements. Write down one device from multiple machines.
    - One Device Strategy
    - Other Device Strategy
    - Multiple Device Strategy
    - No Device Strategy
    1 point

12. Write the answer to your question:
    1 point

13. Possible answers for answering the following statements. Write down one device from multiple machines.
    - One Device Strategy
    - Other Device Strategy
    - Multiple Device Strategy
    - No Device Strategy
    1 point