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Chapter 5

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Review Questions #1, 4, and 6-11

1. B

4. D

6. A

7. B

8. A

9. C

10. B

11. A

Algorithm Workbench #6 and 11

6. final int ROW = 10;

final int COLUMN = 15;

for (int r = 0; r < ROW; r++){

for (int c = 0; c < COLUMN; c++){

System.out.print(“#”);

}

System.out.println();

}

11. Scanner keyboard = new Scanner(System.in);

int num;

do{

System.out.println(“Please enter a number in the range of 1 through 5: “);

num = keyboard.nextInt();

}while(num < 1 || num > 5);

Find the Error #1, 2, and 4

1.

* Doesn’t initialize again to equal keyboard.next() before the first while loop
* char again would always be null, causing the while loop to never execute
* Missing the curly brackets for the while loop
* Missing an end parenthesis for the second print command

2.

* Must increment the count in while loop to avoid infinite loop and achieve the condition of count being greater than 100.  With this extra line added, curly brackets would be required for the while loop because it contains multiple lines.

4.

* Commas should be replaced with semicolons in the for loop, and the end semicolon after count++ should be removed
* count++ after the print statement needs to be removed because it is already in the for loop