

Diamond Lab

Create a new project called `diamond_lab` with a new class called `DiamondWithParams`. Copy the below code into that file (make sure the quotations are correct). Compile it and run it. Next, modify the code to draw the diamond below, by passing parameters to the new method `drawLine()`.

```
#=====#
|      <><>      |
|      <>....<>      |
|      <>.....<>      |
|<>.....<>      |
|<>.....<>      |
|      <>.....<>      |
|      <>....<>      |
|      <><>      |
#=====#
```

When you are done, the code for `topHalf` and `bottomHalf` should be much simpler, and have **no** print statements. So modify `topHalf` and `bottomHalf` to call `drawLine` in the correct place.

```
public class DiamondWithParams {

    public static void main(String[] args) {
        border();
        topHalf();
        bottomHalf();
        border();
    }

    public static void border() {
        System.out.println("#=====#");
    }

    public static void topHalf() {

        for(int line=0; line<=3; line++) {
            System.out.print("|");

            int sumSpaces=6;

            for(int space=1; space<=sumSpaces-line*2; space++) {
                System.out.print(" ");
            }
            System.out.print("<>");

            for(int dot=1; dot<=line*4; dot++) {
                System.out.print(".");
            }

            System.out.print("<>");
            for(int space=1; space<=sumSpaces-line*2; space++) {
                System.out.print(" ");
            }
        }
    }
}
```

```

        System.out.print("|");
        System.out.println();
    }

}

public static void bottomHalf() {

    for(int line=0; line<=3; line++) {
        System.out.print("|");

        for(int space=1; space<=line*2; space++) {
            System.out.print(" ");
        }
        System.out.print("<>");
        for( int dot=1; dot<=12-line*4; dot++){
            System.out.print(".");
        }
        System.out.print("<>");
        for(int space=1; space<=line*2; space++) {
            System.out.print(" ");
        }
        System.out.print("|");
        System.out.println("");
    }

}

public static void drawLine( int spaces, int dots ) {

    System.out.print("|");
    for(int space=1; space <= spaces; space++) {
        System.out.print(" ");
    }
    System.out.print("<>");
    for(int dot=1; dot<=dots; dot++) {
        System.out.print(".");
    }
    System.out.print("<>");
    for(int space=1; space <= spaces; space++) {
        System.out.print(" ");
    }
    System.out.print("|");
    System.out.println();
}

}

```