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Skill 21.1: Exercise 1 Consider the following code, int a = 3; int b = a; b = 100;int[] c = {1, 2, 3, 4}; int[] d = c; d[1] = 99;d = new int[5]; int[] e = {5, 6, 7, 8}; $int[] f = {5, 6, 7, 8};$ f[1] = 98;e = f;String g = "hello"; String h = g; h = "goodbye"; (a) What values are stored in d after the above code is executed? (b) What values are stored in c after the above code is executed? (c) What is the value of b after the above code is executed?

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```
Skill 21.2: Exercise 1
Refer to the code below to answer the following,
public class Tester
{
     public static void main(String args[ ])
          int s[] = {1, 2, 3, 4, 5, 6};
          for(int g = 0; g < s.length; g++)</pre>
                System.out.print(s[s] + " ");
          System.out.print("\n");
          testMethod(s);
          for(int g = 0; g < s.length; g++)</pre>
                System.out.print(s[g] + " ");
     }
     public static void testMethod(int pp[ ])
          int len = pp.length;
          int t2[] = new int[len];
          for(int j = 0; j < len; j++)</pre>
                t2[j] = pp[len - j - 1];
          for(int k = 0; k < t2.length; k++)
                System.out.print(t2[k] + " ");
          System.out.print("\n");
          pp = t2;
     }
}
```

Complete the stack and heap diagram, then indicate the output that would be printed

Stack	Heap	Output

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```
Skill 21.2 Exercise 2
public class Tester {
    public static void main(String args[]) {
        int[] prf = { 13, 22, 89, 15 };
        double d = 30.89;
        Circle myCir = new Circle(18);//sets rad to 18
        myCir.rad = 14;
        fg(prf, d, myCir);
        System.out.println(d);
        System.out.println(prf[2]);
        System.out.println(myCir.rad);
    }
    public static void fg(int[] x, double d, Circle c) {
        d++;
        x[2] = 16;
        c.rad = 122;
        System.out.println(d++);
        int nn[] = new int[x.length];
        nn[3] = x[0];
        x = nn;
    }
```

Complete the stack and heap diagram, then answer the questions

Stack

Heap

What is the output of System.out.println(d); in main?

What is the output of System.out.println(prf[2]); in main?

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```
What is the output of System.out.println(myCir.rad); in main?

What is the output of System.out.println(d++); in the fg method?
```

```
Skill 21.2 Exercise 3
public class Tester {
     public static void main(String[] args){
         double b[] = new double[10];
         b[3] = 19;
         BankAccount myAccount = new BankAccount(79); //sets balance to 79
         int y = 39;
         method1(y, b, myAccount);
         BankAccount anotherAccount = myAccount;
         anotherAccount.deposit = 200;// adds 20 to the balance
         System.out.println(y + " " + b[3] + " " + myAccount.balance);
     }
     public static void method1(int x, double a[], BankAccount theAccount){
         x = 332;
         a[3] = -54;
         theAccount.balance = 702;
```

Draw the stack-heap diagram for the code block above

Stack Stack	Неар

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Name	Period
Indicate what is printed	