8. Read the method definition below:  
  
public static void a(int x, int y) {  
 System.out.print("a" + x + "-" + y);  
 b(x \* 3, y \* 3);  
 System.out.print("a" + x + "-" + y);  
}  
  
public static void b(int x, int y) {  
 System.out.print("b" + x + "-" + y);  
 x = x \* y;  
 System.out.print("b" + x + "-" + y);  
}  
  
Given the code above, what is printed by the following code segment?  
  
a(3, 2);  
  
Note that if there is no output, please choose "nothing"  
a3-2b9-6b54-6a3-2: 100%a3-2b3-2b9-2a3-2: 50%a3-2a9-6b9-6b54-6: 25%a3-2b9-6b54-6a54-2: 37.5%a3-2b9-6b54-6a54-6: 37.5%a3-2b9-6b54-6: 37.5%a3-2a6-5a15-6a54: 5%a3-2b3-2: 5%a3-2: 5%a9-2: 0%a9-6: 0%b54-27: 15%b3-2: 0%b9-b6: 0%a+3-2: 0%nothing: 0%  
  
5. Specify the output of the following code segment.  
  
int[] numbers = {5, 6, 7, 8, 9};  
for (int i = 0; i < numbers.length; i++) {  
 if (i == 2) {  
 System.out.print(numbers[i]);  
 } else if (i == 3) {  
 System.out.print(numbers[i - 3]);  
 System.out.print(numbers[i - 1]);  
 System.out.print(numbers[i]);  
 } else if (i == 3) {  
 System.out.print(numbers[i - 4]);  
 System.out.print(numbers[i - 2]);  
 System.out.print(numbers[i]);  
 }  
}  
  
Note that if there is no output, please choose "nothing"  
7578579: 100%75789: 50%55759: 0%578: 25%2023024: 50%56789467579: 15%788789989: 0%023: 0%024: 5%576: 0%2: 0%5: 0%7: 0%nothing: 0%  
  
1. Read the method definition below:  
  
public class Container  
{  
 int type;  
 int beans;  
  
 public Container()  
 {  
 System.out.print("a");  
 this.type = 0;  
 this.beans = 0;  
 }  
  
 public Container(int type, int beans)  
 {  
 System.out.print("b");  
 this.type = type;  
 this.beans = beans;  
 }  
  
 public String toString()  
 {  
 return this.type + "-" + this.beans;  
 }  
}  
  
What is the output of the following code segment?  
  
 Container red = new Container();  
 Container green = new Container(8, 7);  
 System.out.print(red + "$");  
 System.out.print(green);  
  
  
Note that if there is no output, please choose "nothing"  
ab0-0$8-7: 100%0-0$8-7: 80%b0-0$8-7: 90%a0-0$b8-7: 50%a$0-0b8-7: 50%ab8-7: 50%a$8-7: 25%ab0$green: 20%8-7: 25%aba$b: 20%a$b: 0%8$7: 0%red$green: 0%red$2green: 0%green-: 0%green: 0%Container()$ Container(8, 7): 0%nothing: 0%  
  
1. Read the following class definition,  
  
public class Pantry  
{  
  
 private int stages;  
 private int height;  
  
 public Pantry(int stages, int height) {  
 this.stages = stages;  
 this.height = height;  
 }  
  
 public int get() {  
 return this.stages + this.height;  
 }  
  
 public static int calc(int stages)  
 {  
 return stages \* 2;  
 }  
  
}  
  
What is the output of the following code segment?  
  
Pantry food = new Pantry(5, 2);  
int x = food.get();  
System.out.print(x + "-");  
int y = Pantry.calc(12);  
System.out.print(y);  
  
Note that if there is no output, please choose "nothing"  
7-24: 100%7-10: 50%7-60: 50%7 5-24: 0%7-12: 50%9-24: 80%52-24: 80%1-24: 50%5-24: 50%60-24: 0%14: 0%10: 0%5: 0%5-2: 0%6-4: 0%