

Write the output and explain why:

	Code	Output	
A	<pre> public static void foo(int num) { System.out.print(num*3); } public static void foo(double num) { System.out.print(num*2); } public static void bar() { foo(2.0); foo(3); } </pre>	Method Call	Output
		bar()	4.09
		foo(5)	15
		Because: Because a method call looks for the matching method signature.	
B	<pre> for (int i = 1; i <=5; i++) { for (int j = i; j > 0; j--) { System.out.print(j + " "); } System.out.println(); } </pre>	<pre> 1 2 1 3 2 1 4 3 2 1 5 4 3 2 1 </pre> <p>Because:</p>	

Are these expressions or statements Valid, Explain why:

int num = "three";	Invalid, you can't assign a string literal to an int variable
String first2Last= "Hernandez";	Valid, Valid initialization statement, where a String literal is assigned to a String variable, the variable will hold a reference to that String object in the String pool.
double 2num = 4.7;	Invalid, 2num is not a legal Identifier

1. Write a block of code that prints out an n by n zero matrix:

```
int n=3;

for (int i =0; i<n; i++)
{
    for(int j=0; j<n; j++)
    {
        System.out.print( 0 +" ");
    }
    System.out.println();
}
```

2. Write a static void method that takes two int numbers and display the sum:

```
public static void sum2(int num1, int num2)
{
    System.out.println(num1+num2);
}
```

3. Write a class called Bird that contains two static void method called sing() that display the sound of the bird, and another static method called eat() that will call the method sing() and display "num num Yummy food!" invoke both methods from the main method.

```
public class Bird
{
    public static void sing()
    {
        System.out.println("Chirp");
    }
    public static void eat()
    {
        sing();
        System.out.println("num num Yummy food!");
    }
    public static void main(String [] args)
    {
        eat();
        eat();
        sing();
        sing();
    }
}
```

1) Write A function/method that display if a number is even or not:

2)Write a method that takes in a number and display the sum of all the nth natural numbers including n:

2) Write A method that takes in a name and display a "Miss, Mister title" together with the name:

3) Write a class called College that have a method called fromGradetoLetter() that takes the grade in numbers and returns the grade in letter. A method call will look like this
fromGradetoLetter(95)→ A

Ps- Use a main method to test your methods, and pick distinct values, Note do not need use Scanner objects