

# ソフトウェア工学 レポート課題15

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## コードフォーマットと可読性の改善

修正前

```
import java.util.*;
public class calc{
private int x,y;
public calc(int a,int b){x=a;y=b;}
public int add(){return x+y;}
public int sub(){return x-y;}
public void prnt(){System.out.println("x="+x+",y="+y);}
public static void main(String[]args){
calc c=new calc(10,5);
System.out.println("Sum: "+c.add());
System.out.println("Diff: "+c.sub());
c.prnt();
List<Integer>nums=Arrays.asList(1,2,3,4,5);
for(int n:nums){
if(n%2==0)System.out.print(n+" ");
}
}
}
```

修正後

```
import java.util.*;

public class Calculator {
    private int firstNumber;
    private int secondNumber;

    public Calculator(int firstNumber, int secondNumber) {
        this.firstNumber = firstNumber;
        this.secondNumber = secondNumber;
    }

    public int add() {
        return firstNumber + secondNumber;
    }
}
```

```
public int subtract() {
    return firstNumber - secondNumber;
}

public void printNumbers() {
    System.out.println("firstNumber=" + firstNumber + ", "
secondNumber=" + secondNumber);
}

public static void main(String[] args) {
    Calculator calculator = new Calculator(10, 5);

    System.out.println("Sum: " + calculator.add());
    System.out.println("Difference: " + calculator.subtract());
    calculator.printNumbers();

    List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5);
    System.out.print("Even numbers: ");
    for (int number : numbers) {
        if (number % 2 == 0) {
            System.out.print(number + " ");
        }
    }
    System.out.println();
}
}
```