How to Submit:

Please submit your answers to the lab instructor once you have completed. Failure to submit will result in a zero for this lab.

Problem 1:

For each of the following sub-programs, determine the number of times the statement “System.out.println(y)” will be executed; otherwise, indicate if it an infinite loop.

```java
int y = 15;
while(y>0){
    System.out.println("y");
    y = y - 1;
}
```

```java
int y = 5;
do{
    System.out.println("y");
    y=1;
}while(y<0);
```

```java
int y = 5;
while(y>0){
    System.out.println("y");
}
```

```java
for (i=0;i<140;i++)
    System.out.println("y");
```

```java
for(i=50;i<640;i++)
    for(j=2;j<10;j++)
        System.out.println("y");
```

Problem 2:

Given two arrays containing unique elements, write a Java function that computes their intersection. (The result can be in any order)

Example 1:

Input: nums1 = [1,2,3,4,5,6,7], nums2 = [7,2,0,10]
Output: [2,7]

Example 2:

Input: nums1 = [4,9,5], nums2 = [9,4,7,8]
Output: [9,4]