

Main :

```
import java.util.ArrayList;
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        System.out.print("enter size of first list: ");
        int size1 = input.nextInt();
        ArrayList<Integer> list1 = new ArrayList<>();
        System.out.println("enter elements of first list:");
        for (int i = 0; i < size1; i++) {
            list1.add(input.nextInt());
        }

        System.out.print("enter size of second list: ");
        int size2 = input.nextInt();
        ArrayList<Integer> list2 = new ArrayList<>();
        System.out.println("enter elements of second list:");
        for (int i = 0; i < size2; i++) {
            list2.add(input.nextInt());
        }

        Compare_Lists obj = new Compare_Lists(list1, list2);
        obj.findCommon();
        obj.printNotcommon();
    }
}
```

Class Compare_Lists :

```
import java.util.ArrayList;

public class Compare_Lists {
    ArrayList<Integer> list1;
    ArrayList<Integer> list2;

    Compare_Lists(ArrayList<Integer> list1, ArrayList<Integer> list2) {
        this.list1 = list1;
        this.list2 = list2;
    }

    void findCommon() {
        System.out.print("common elements: ");
        for (int i = 0; i < this.list1.size(); i++) {
```

```

        int element = this.list1.get(i);
        if (this.list2.contains(element)) {
            System.out.print(element + " ");
        }
    }
    System.out.println();
}

public void printNotcommon() {
    System.out.print("not common elements: ");
    for (int i = 0; i < this.list1.size(); i++) {
        int element = this.list1.get(i);
        if (!this.list2.contains(element)) {
            System.out.print(element + " ");
        }
    }
    for (int i = 0; i < this.list2.size(); i++) {
        int element = this.list2.get(i);
        if (!this.list1.contains(element)) {
            System.out.print(element + " ");
        }
    }
    System.out.println();
}
}

```

Output :

E:\java\bin\java.exe "-javaagent:E:\IntelliJ\IntelliJ IDEA Community Edition
 2025.1.3\lib\idea_rt.jar=59040" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -
 Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Baba\IdeaProjects\untitled\out\production\untitled
 Main

enter size of first list: 5

enter elements of first list:

0

1

1

2

3

enter size of second list: 6

enter elements of second list:

1

5

6

5

7

5

common elements: 1 1

not common elements: 0 2 3 5 6 5 7 5

Process finished with exit code 0