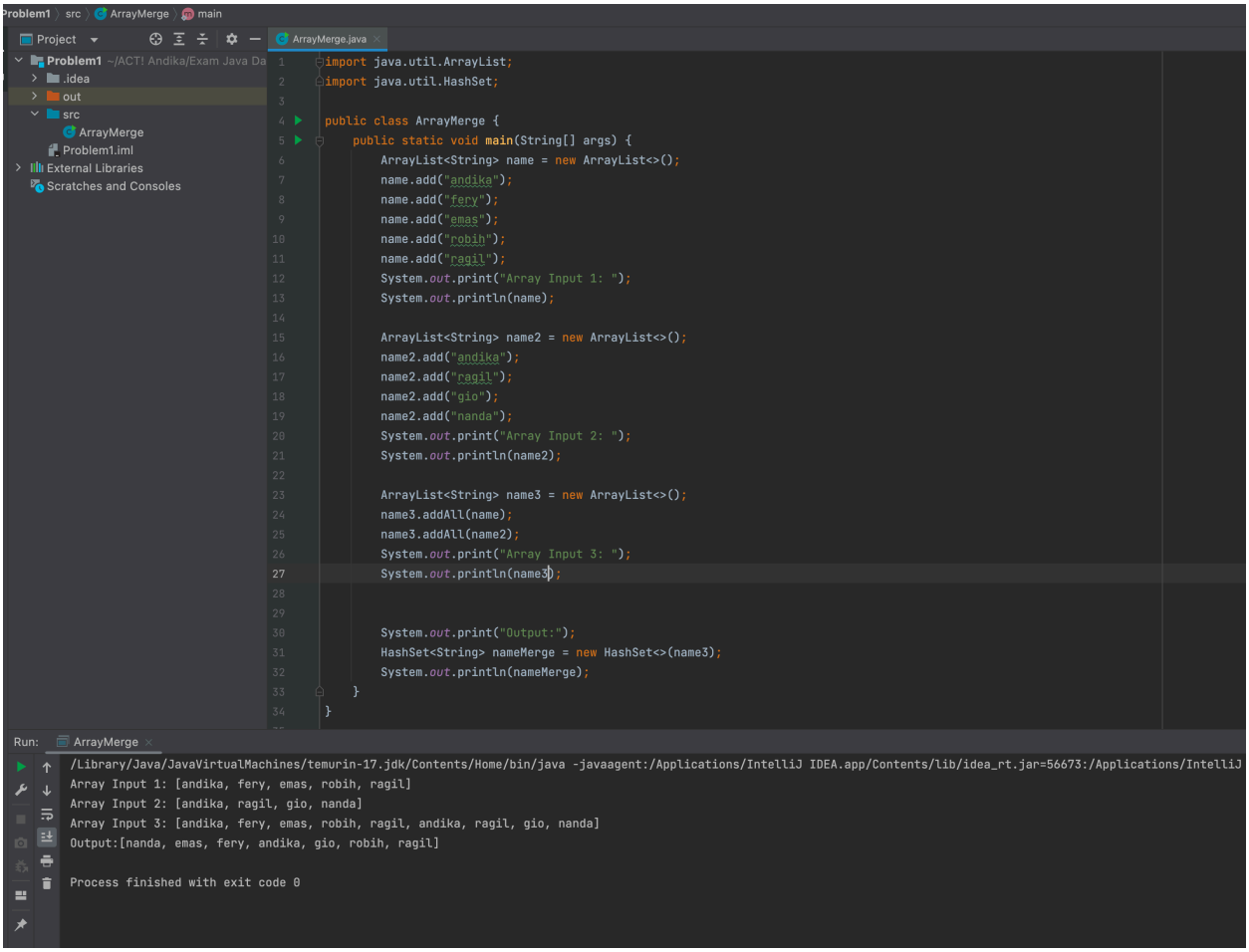
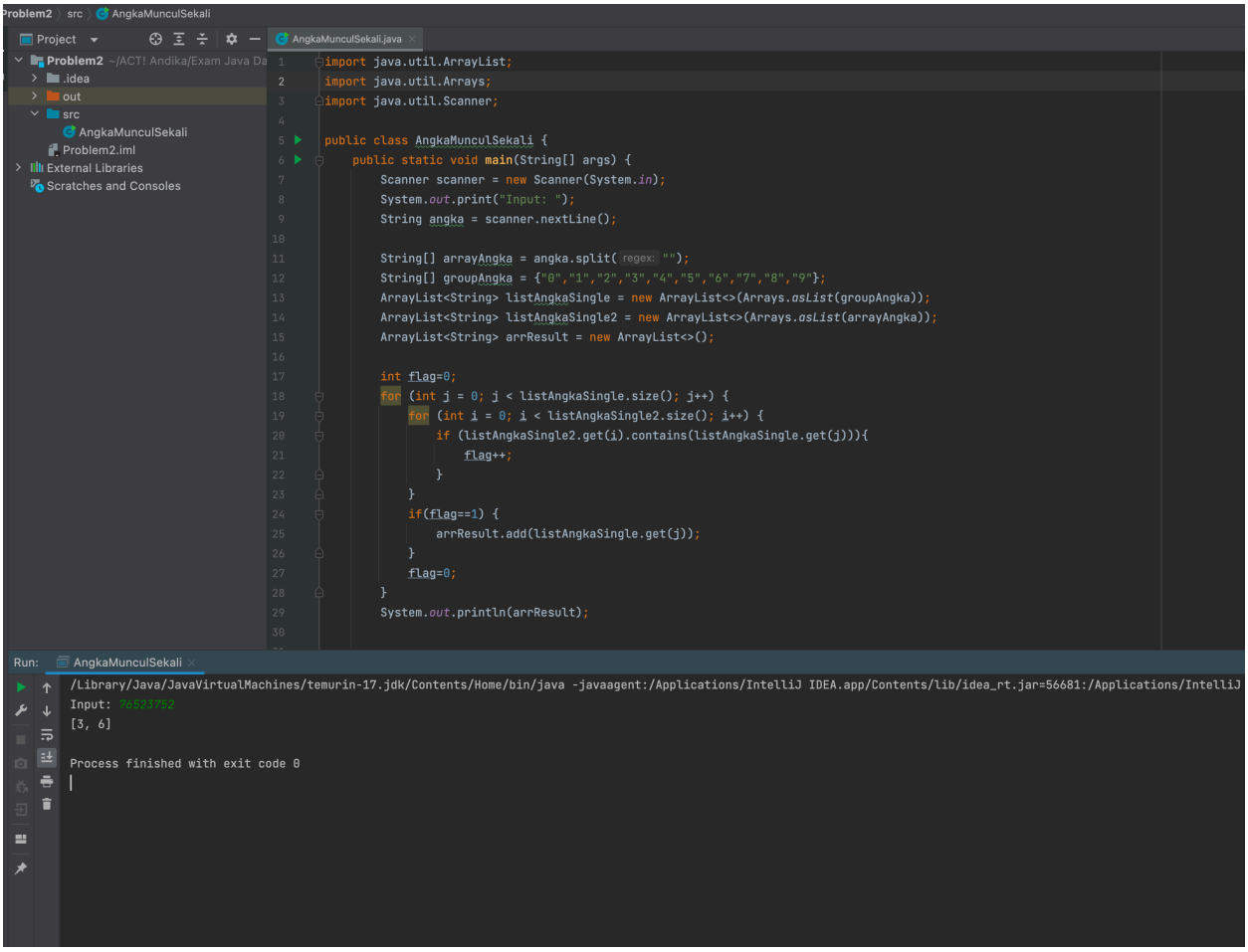
Iterable & Map

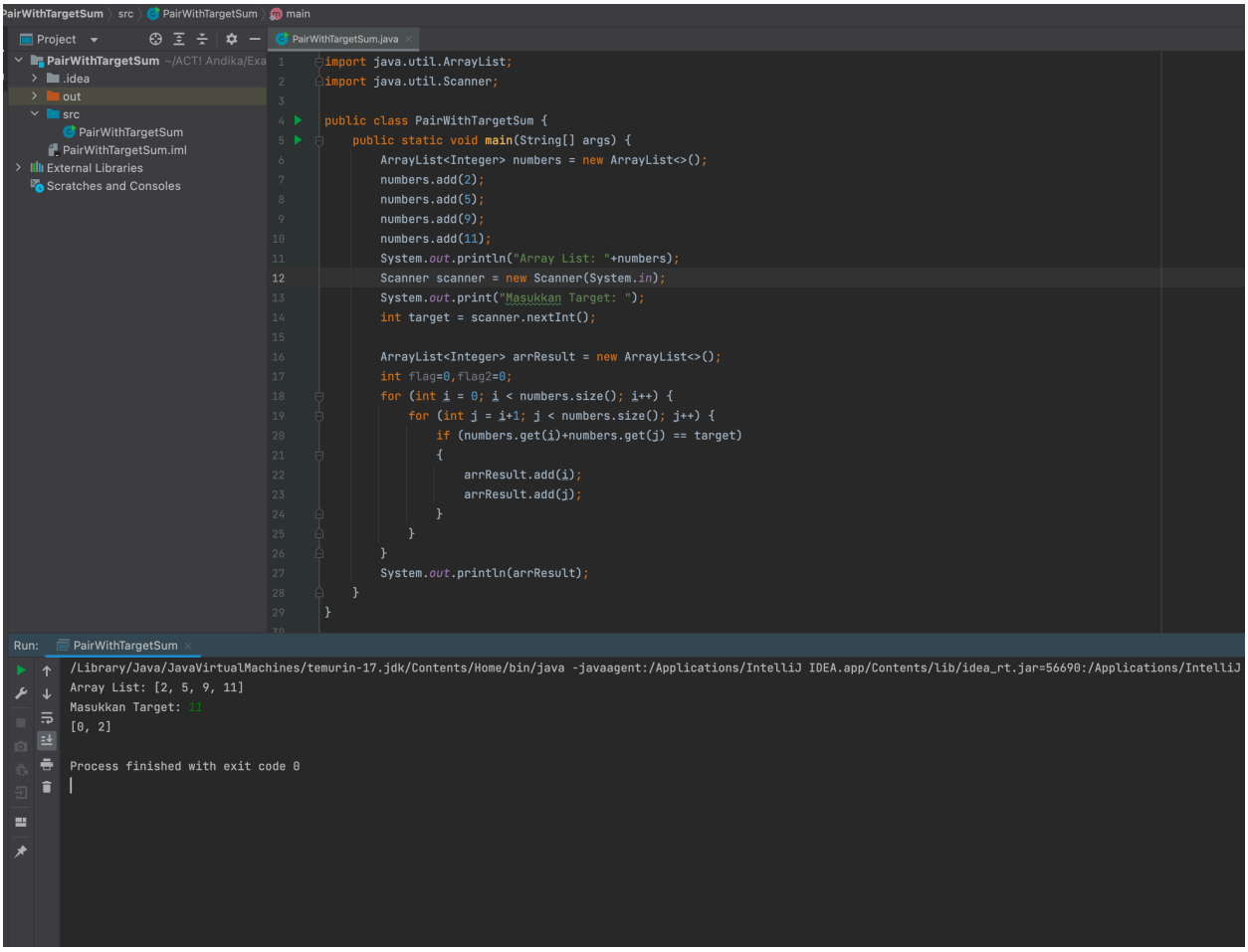
1. Problem 1



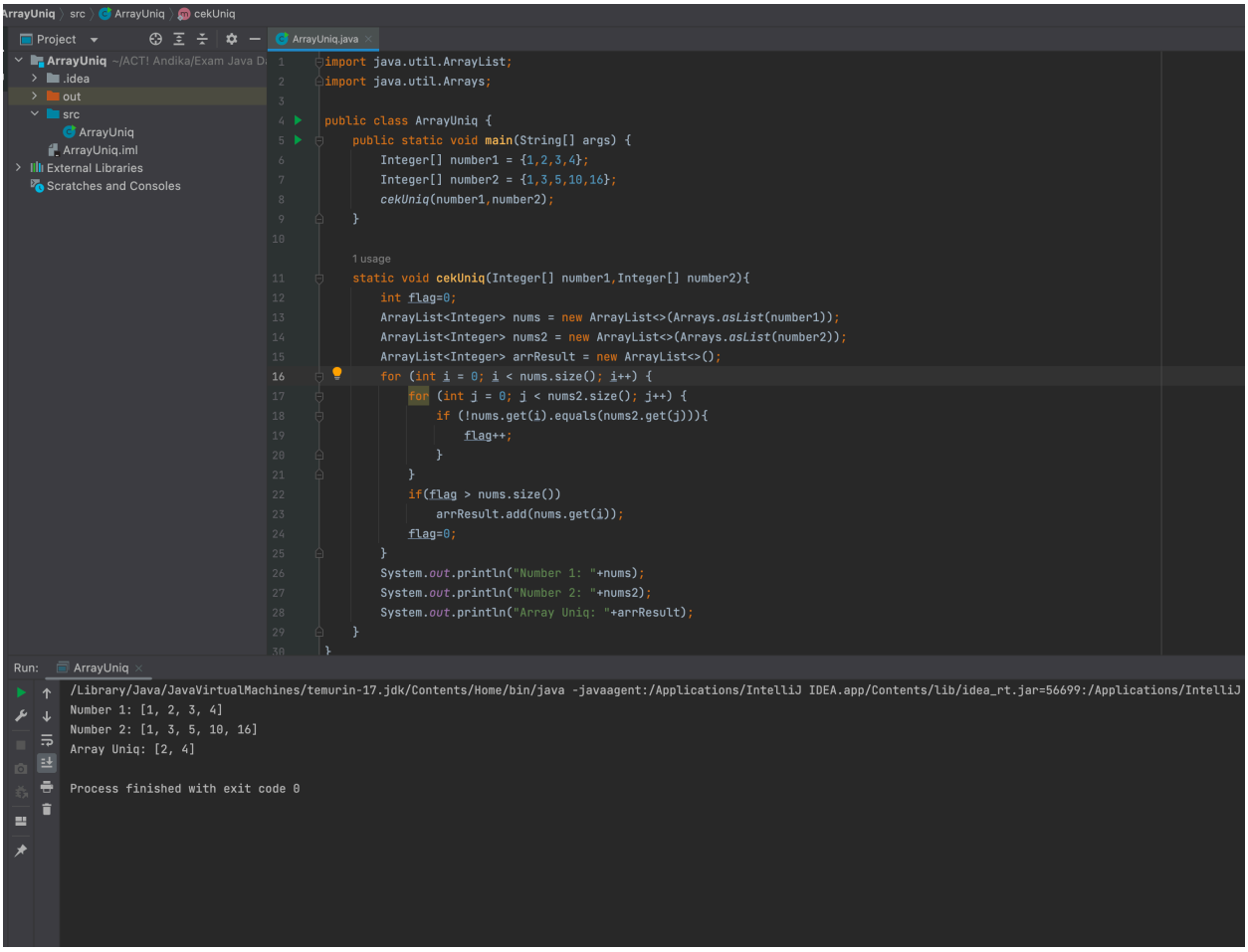
2. Problem 2


Problem2 › src › AngkaMunculSekali
Project
AngkaMunculSekali.java
Problem2 ~/ACT! Andika/Exam Java Da
.idea
out
src
AngkaMunculSekali
Problem2.iml
External Libraries
Scratches and Consoles
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public class AngkaMunculSekali {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Input: ");
String angka = scanner.nextLine();
String[] arrayAngka = angka.split(regex: "");
String[] groupAngka = {"0","1","2","3","4","5","6","7","8","9"};
ArrayList<String> listAngkaSingle = new ArrayList<>(Arrays.asList(groupAngka));
ArrayList<String> listAngkaSingle2 = new ArrayList<>(Arrays.asList(arrayAngka));
ArrayList<String> arrResult = new ArrayList<>();
int flag=0;
for (int j = 0; j < listAngkaSingle.size(); j++) {
for (int i = 0; i < listAngkaSingle2.size(); i++) {
if (listAngkaSingle2.get(i).contains(listAngkaSingle.get(j))){
flag++;
}
}
if(flag==1) {
arrResult.add(listAngkaSingle.get(j));
}
flag=0;
}
System.out.println(arrResult);
Run:
AngkaMunculSekali
/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=56681:/Applications/IntelliJ
Input: 76823782
[3, 6]
Process finished with exit code 0

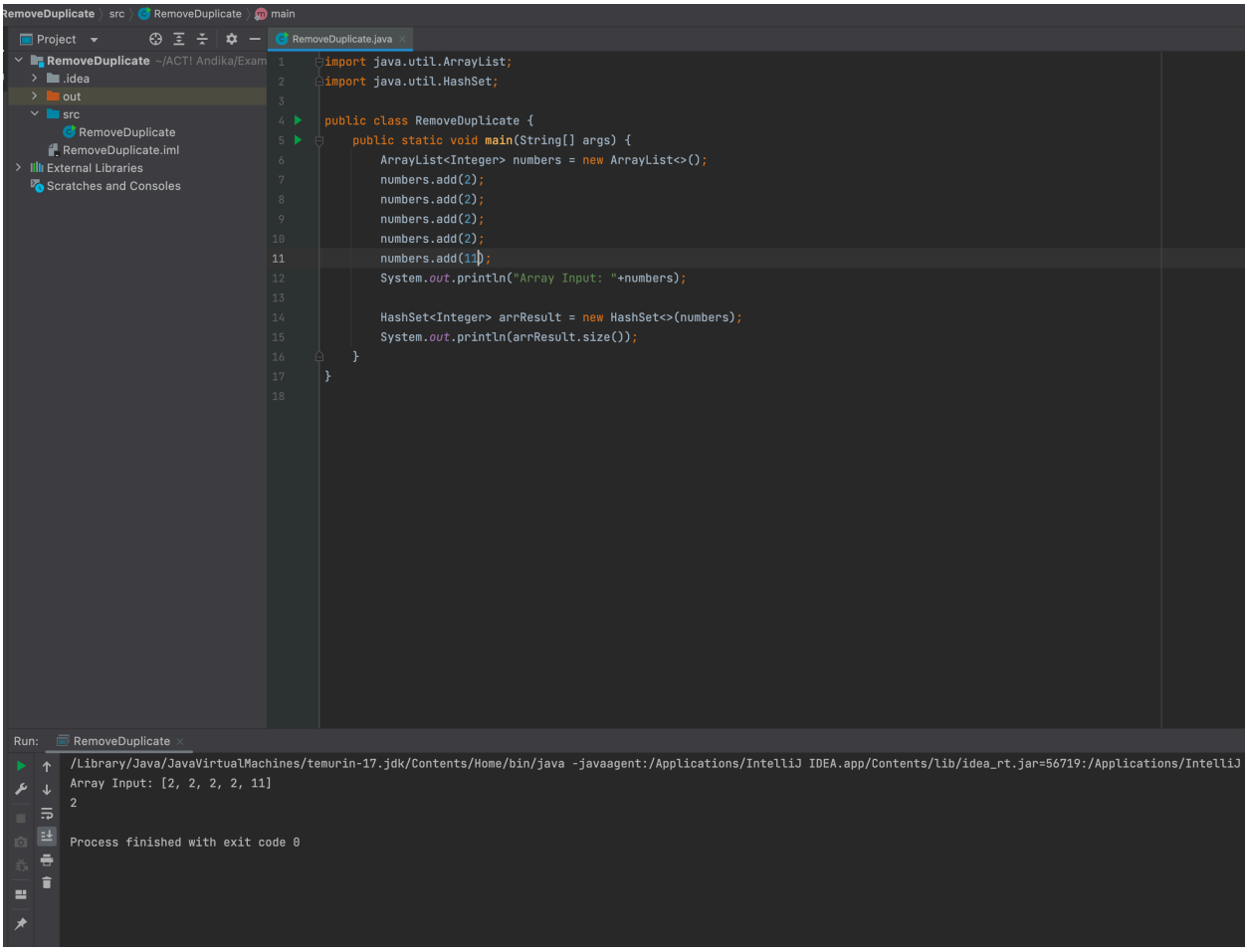
3. Problem 3


PairWithTargetSum › src › PairWithTargetSum › main
Project
PairWithTargetSum ~/ACT! Andika/Exa
.idea
out
src
PairWithTargetSum
PairWithTargetSum.iml
External Libraries
Scratches and Consoles
PairWithTargetSum.java
import java.util.ArrayList;
import java.util.Scanner;
public class PairWithTargetSum {
public static void main(String[] args) {
ArrayList<Integer> numbers = new ArrayList<>();
numbers.add(2);
numbers.add(5);
numbers.add(9);
numbers.add(11);
System.out.println("Array List: "+numbers);
Scanner scanner = new Scanner(System.in);
System.out.print("Masukkan Target: ");
int target = scanner.nextInt();
ArrayList<Integer> arrResult = new ArrayList<>();
int flag=0,flag2=0;
for (int i = 0; i < numbers.size(); i++) {
for (int j = i+1; j < numbers.size(); j++) {
if (numbers.get(i)+numbers.get(j) == target)
{
arrResult.add(i);
arrResult.add(j);
}
}
}
System.out.println(arrResult);
}
}
Run:
PairWithTargetSum
/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=56690:/Applications/IntelliJ
Array List: [2, 5, 9, 11]
Masukkan Target: 11
[0, 2]
Process finished with exit code 0

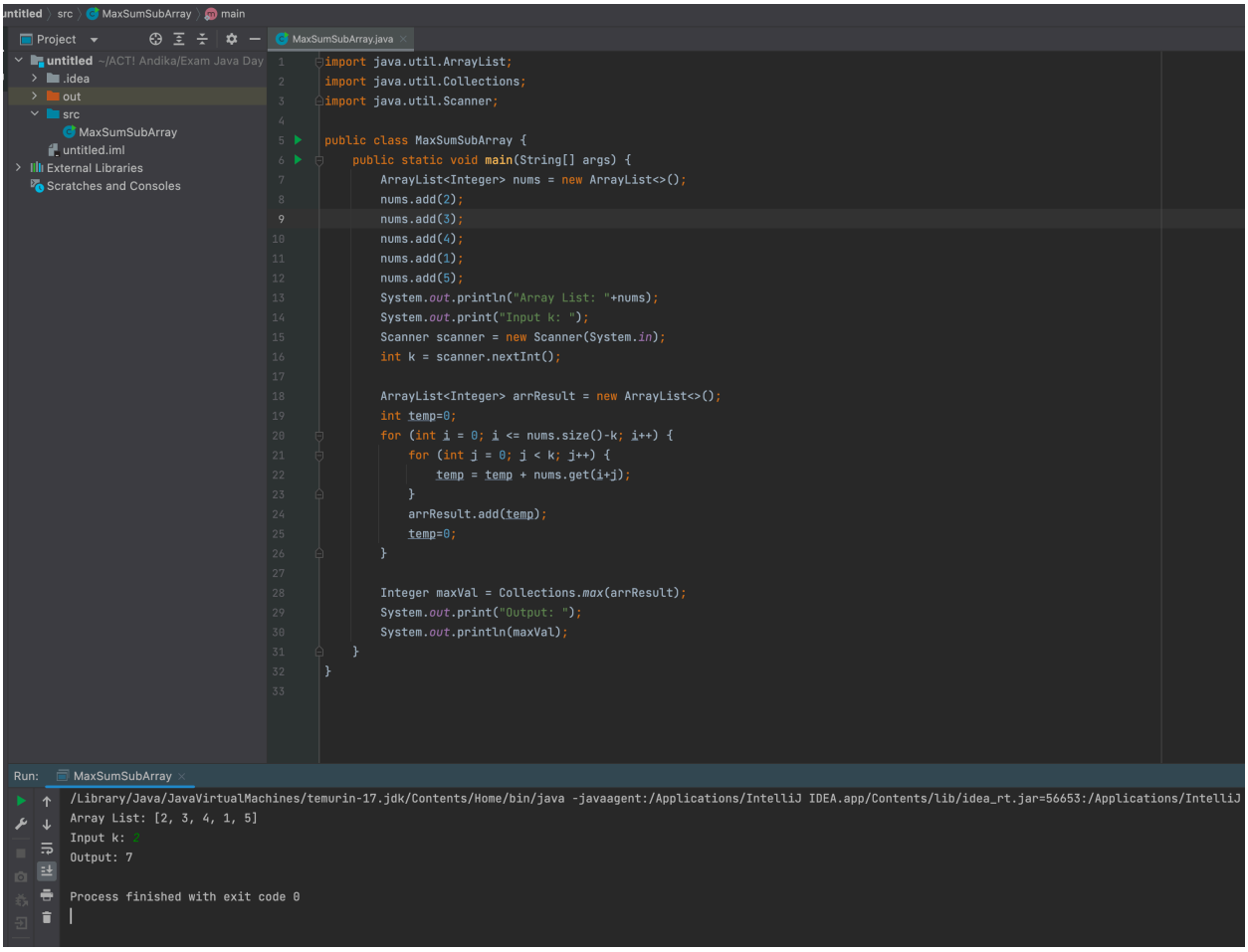
4. Problem 4


ArrayUniq › src › ArrayUniq › cekUniq
Project
ArrayUniq ~/ACT! Andika/Exam Java Di
.idea
out
src
ArrayUniq
ArrayUniq.iml
External Libraries
Scratches and Consoles
ArrayUniq.java
import java.util.ArrayList;
import java.util.Arrays;
public class ArrayUniq {
public static void main(String[] args) {
Integer[] number1 = {1,2,3,4};
Integer[] number2 = {1,3,5,10,16};
cekUniq(number1,number2);
}
1 usage
static void cekUniq(Integer[] number1,Integer[] number2){
int flag=0;
ArrayList<Integer> nums = new ArrayList<>(Arrays.asList(number1));
ArrayList<Integer> nums2 = new ArrayList<>(Arrays.asList(number2));
ArrayList<Integer> arrResult = new ArrayList<>();
for (int i = 0; i < nums.size(); i++) {
for (int j = 0; j < nums2.size(); j++) {
if (!nums.get(i).equals(nums2.get(j))){
flag++;
}
}
if(flag > nums.size())
arrResult.add(nums.get(i));
flag=0;
}
System.out.println("Number 1: "+nums);
System.out.println("Number 2: "+nums2);
System.out.println("Array Uniq: "+arrResult);
}
}
Run: ArrayUniq
/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=56699:/Applications/IntelliJ
Number 1: [1, 2, 3, 4]
Number 2: [1, 3, 5, 10, 16]
Array Uniq: [2, 4]
Process finished with exit code 0

5. Problem 5


RemoveDuplicate
src
RemoveDuplicate
main
Project
RemoveDuplicate.java
RemoveDuplicate ~/ACT! Andika/Exam
.idea
out
src
RemoveDuplicate
RemoveDuplicate.iml
External Libraries
Scratches and Consoles
import java.util.ArrayList;
import java.util.HashSet;
public class RemoveDuplicate {
public static void main(String[] args) {
ArrayList<Integer> numbers = new ArrayList<>();
numbers.add(2);
numbers.add(2);
numbers.add(2);
numbers.add(2);
numbers.add(11);
System.out.println("Array Input: "+numbers);
HashSet<Integer> arrResult = new HashSet<>(numbers);
System.out.println(arrResult.size());
}
}
Run:
RemoveDuplicate
/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=56719:/Applications/IntelliJ
Array Input: [2, 2, 2, 2, 11]
2
Process finished with exit code 0

6. Problem 6


untitled › src › MaxSumSubArray › main
Project
untitled ~/ACT! Andika/Exam Java Day
.idea
out
src
MaxSumSubArray
untitled.iml
External Libraries
Scratches and Consoles
MaxSumSubArray.java
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
public class MaxSumSubArray {
public static void main(String[] args) {
ArrayList<Integer> nums = new ArrayList<>();
nums.add(2);
nums.add(3);
nums.add(4);
nums.add(1);
nums.add(5);
System.out.println("Array List: "+nums);
System.out.print("Input k: ");
Scanner scanner = new Scanner(System.in);
int k = scanner.nextInt();
ArrayList<Integer> arrResult = new ArrayList<>();
int temp=0;
for (int i = 0; i <= nums.size()-k; i++) {
for (int j = 0; j < k; j++) {
temp = temp + nums.get(i+j);
}
arrResult.add(temp);
temp=0;
}
Integer maxVal = Collections.max(arrResult);
System.out.print("Output: ");
System.out.println(maxVal);
}
}
Run:
MaxSumSubArray
/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=56653:/Applications/IntelliJ
Array List: [2, 3, 4, 1, 5]
Input k: 2
Output: 7
Process finished with exit code 0