## **Problem Solving Paradigm**

- 1. Simple question
- 2. Money Change

```
□ Project ▼ ② ② ∑ ★ Φ — © CoinChange.java > ▼ □ CoinChange -/ACT! Andika/Exam Java Day 7/CoinChan 1 import j
                                                               import java.util.Vector;
  > idea
> out
> src
                                                              public class CoinChange {
      © CoinChange
     CoinChange.iml
                                                                   static int deno[] = {1, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000};
  Scratches and Consoles
                                                                   static void findMin(int V)
                                                                   public static void main(String[] args)
       /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea
        Following is minimal number of change for 432: 200 200 20 10 1 1
        Process finished with exit code \theta
```

3. Dragon of Lootwater

4. BinarySearch

```
BinarySearch - BinarySearch.
BinarySearch > src > C BinarySearch > main
 public static boolean binarySearchOptimization(int[] array, int x, int start, int end){
   > idea
> out
> src
                                    int mid = start + ((end-start)/2);
         © BinarySearc 7
      # BinarySearch.ir 8
                                   if (array[mid] > x) return true;
    Scratches and Co 10 U
                                   else if (x < array[mid]) return binarySearchOptimization(array, x, start, end: mid-1);</pre>
                                    else return binarySearchOptimization(array, x, start: mid+1, end);
                                public static int findIndex(int arr[], int t)
                                    int index = Arrays.binarySearch(arr, t);
                                public static void main(String[] args) {
                                    if(checkArray) System.out.println(findIndex(array, t: 6));
  ▶ ↑ /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/ide
         Process finished with exit code 0
      ŧ
  ---
```