```
source.java
                  ■ Source.java 🖾
     1 package com.trg.pt;
     2
     30 import java.util.ArrayList;
8
     4 import java.util.Arrays:
     5 import java.util.Collections;
     6 import java.util.List;
     7
       public class Source {
        public int sum(ArrayList<Integer> numbers){
           int 5=0;
   10
           for(Integer i:numbers) {
   11
   12
           s+=i;
   13
               return s;
   14
   15
   16⊖ public ArrayList<Integer> splitAndReverse(ArrayList<Integer> list){
   17
           int size=list.size();
           List<Integer> list1= new ArrayList<Integer>();
   18
          List<Integer> list2= new ArrayList<Integer>();
   19
          ArrayList<Integer> res= new ArrayList<Integer>();
   20
           if(size%2==0) {
   21
              list1= list.subList(0, size/2);
   22
               list2= list.subList(size/2, size);
   23
               Collections.reverse(list1);
  24
              Collections.reverse(list2);
  25
  26
          else
  27
  28
              list1=list.subList(0, (size/2)+1);
  29
              list2=list.subList((size/2)+1, size);
  30
              Collections.reverse(list1);
  31
              Collections.reverse(list2);
  32
              list1.addAll(list2);
  33
              res, addAll(list1);
  34
  35
  36
          return res;
  37
  38 public Integer getItemAtIndex(ArrayList<Integer> list, int index) {
```

```
22
            115T1= 115C.SUDL13C(0, 312C/2/)
            list2= list.subList(size/2, size);
23
            Collections.reverse(list1);
24
            Collections.reverse(list2);
25
26
        else
27
28
            list1=list.subList(0, (size/2)+1);
29
            list2=list.subList((size/2)+1, size);
30
            Collections.reverse(list1);
31
            Collections.reverse(list2);
32
            list1.addAll(list2);
33
            res.addAll(list1);
34
35
        return res;
36
37 }
38@ public Integer getItemAtIndex(ArrayList<Integer> list, int index) {
        if(index<=list.size()) {
39
            return list.get(index);
40
41
        else
42
43
                return null;
44
45
46
47
48
49⊖ public static void main(String[] args) {
50
           ArrayList<Integer> numbers= new ArrayList<Integer>();
51
           numbers.add(3);
52
53
           numbers.add(2);
           numbers.add(1);
54
55
           Source obj = new Source();
          System.out.println("Sum of numbers "+ obj.sum(numbers));
56
           System.out.println("value at index "+obj.getItemAtIndex(numbers, 0));
57
           System.out.println(obj.splitAndReverse(numbers));
58
59
60
```