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ITC 155

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public class assignment6 {

//problem 4

public static int[] mystery1 (int[] list) {

int[] result = new int[2 \* list.length];

for (int i = 0; i< list.length; i++) {

result[2 \* i] = list[i /2 + list[i] % 2];

result[2 \* i + 1] = list[i] /2;

}

return result;

}

* Linear class
* 2N + 1
* O(N)

//problem5

public static void mystery2 (int[] list) {

for (int i = 0; i < list.length / 2; i++) {

int j = list.length - 1 - i;

int temp = list[i];

list [i] = list [j];

list [j] = temp;

}

}

4N+1

//problem6

public static void mystery3 (List<String> list) {

for (int i = 0; i < list.size() -1; i += 2) {

String first = list.remove(i);

list.add(i + 1,first);

}

}

2N+1

//problem7

public static void mystery4 (List<String> list) {

for (int i=0; i< list.size() - 1; i +=2) {

String first = list.get(i);

list.set(i, list.get(i + 1));

list.set(i + 1, first);

}

}

}//end class

3N+1