

## Lösningförslag, kontrollskrivning 2 PTDC

2012–11–19

- ```
public static int[] merge(int[] v1, int[] v2) {
    int[] result = new int[v1.length + v2.length];
    int i = 0;
    int j = 0;
    int k = 0;
    while (i < v1.length && j < v2.length) {
        if (v1[i] < v2[j]) {
            result[k] = v1[i];
            i++;
        } else {
            result[k] = v2[j];
            j++;
        }
        k++;
    }
    while (i < v1.length) {
        result[k] = v1[i];
        i++;
        k++;
    }
    while (j < v2.length) {
        result[k] = v2[j];
        j++;
        k++;
    }
    return result;
}
```
- ```
public double getAveragePoints(int year) {
    int sum = 0;
    for (int i = 0; i < nbrStudents; i++) {
        sum += students[i].getPoints(year);
    }
    return (double) sum / nbrStudents;
}

public void printStatistics(int year) {
    int[] count = new int[7];
    int index;
    for (int i = 0; i < nbrStudents; i++) {
        index = students[i].getPoints(year) / 10;
        if (index >= 7) {
            index = 6;
        }
        count[index]++;
    }
    for (index = 0; index < count.length; index++) {
        System.out.println(count[index]);
    }
}
```

```
3.  public void add(int nbr) {
      list.add(new Integer(nbr));
    }

    public void remove(ArrayList<Integer> toRemove) {
      for (int i = toRemove.size() - 1; i >= 0; i--) {
        int index = toRemove.get(i).intValue();
        list.remove(index);
      }
    }
  }
```