

```
public class SchoolSubject
{
    // PARTIE 1: algorithmes retournent toujours la valeur -1
    // Ver 1: solution base

    private String name;
    private ArrayList<Integer> alMarks = new ArrayList<Integer>();

    public SchoolSubject(String pName)
    {
        name = pName;
    }

    public String getName()
    {
        return name;
    }

    public void addMark(int score)
    {
        alMarks.add(score);
    }

    public int getBestMark()
    {
        return -1;
    }

    public int getWorstMark()
    {
        return -1;
    }

    public double calculateAverage()
    {
        return -1;
    }

    public int calculateRoundedAverage()
    {
        return -1;
    }

    public Object[] toArray()
    {
        return alMarks.toArray();
    }

    public void clear()
    {
        alMarks.clear();
    }
}
```

```
public class MainFrame extends javax.swing.JFrame
{
    // PARTIE 1: algorithmes retournent toujours la valeur -1
    // Ver 1: solution base

    private SchoolSubject subject = null;

    public MainFrame()
    {
        initComponents();
        subjectPanel.setVisible(false);
    }

    public void updateView()
    {
        nameLabel.setText(subject.getName());
        marksList.setListData(subject.toArray());

        averageLabel.setText(String.valueOf(subject.calculateRoundedAverage()));
        minLabel.setText(String.valueOf(subject.getWorstMark()));
        maxLabel.setText(String.valueOf(subject.getBestMark()));
    }
    // Skipped: ... initComponents { ... }
    private void createButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_createButtonActionPerformed
        subject = new SchoolSubject(subjectTextField.getText());
        subjectPanel.setVisible(true);
        updateView();
    } //GEN-LAST:event_createButtonActionPerformed

    private void addButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_addButtonActionPerformed
        subject.addMark(Integer.valueOf(markTextField.getText()));
        updateView();

        markTextField.requestFocus();
    } //GEN-LAST:event_addButtonActionPerformed

    private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_clearButtonActionPerformed
        subject.clear();
        updateView();

        markTextField.requestFocus();
    } //GEN-LAST:event_clearButtonActionPerformed
    // Skipped: ... Look & Feel
    // Skipped: ... graphic attributes
}
```