## 09 Final Exam Revision

Q1. Study this class:

```
class Histogram {
  public char symbol = '*';
  protected String[] categories;
  protected int[] frequencies;
  public Histogram(int numCategories) {
    categories = new String[numCategories];
    frequencies = new int[numCategories];
    for (int index=0; index<numCategories; index++) {</pre>
      categories[index] = "unlabeled";
      frequencies[index] = 0;
    }
 public void setCategory(int index, String name, int
frequency) {
    categories[index] = name;
    frequencies[index] = frequency;
 public String toString() {
    String result = "";
    for (int index=0; index<categories.length; index++) {</pre>
      result+=categories[index]+": ";
      result+=repeatSymbol(frequencies[index]);
      result+="\n";
   return result;
 }
 protected String repeatSymbol(int numTimes) {
   String result = "";
    for (int index=0; index<numTimes; index++)</pre>
      result += symbol;
   return result;
```

(a) Identify (i) the constructor, (ii) the fields and (iii) the methods.

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