Assignment 1

Present the Java implementation and the UML class diagram for the following system.

Description

The system is a command line utility for printing results of public polls on various topics. Each poll consists of a set of questions each with several possible answers. For each question the results will be printed in the decreasing order of the associated percentage. To begin with we consider that the questions and answers are read from a text file and that the results for all questions will be printed on the standard output but in the future this might change.

The format of the input file is:

```
T1. Poll topic
Q1. What …?
A1. Answer – p1%
…
Am. Answer – p1%
…
Qn. What …?
A1. Answer – pn%
…
Ar. Answer – pn%
```

Scenario

The user types:
```
java PollResults <topic>
```
The output:
```
Q1. What …?
   Answer – p11%
   …
   Answer – p1m%
…
Qn. What …?
   Answer – pn1%
   …
   Answer – pnr%
```

Note: $p11 \geq … \geq p1m$, $pn1 \geq … \geq pnr$

Try to design your code to be flexible so that future changes in the specifications will cause as few changes to the existing code as possible.