Extra Credit: Workflow

Question 1. Download the 370,105 unique English words and write a Java program that prints all the palindromes[1] therein that are more than three letters long. Listing 1 shows how to fill a Java array of the appropriate size with the lines of a file. Store the code in a file called `Palindrome.java`.

```java
public static void fillLines(String path, String[] lines) {
  try (BufferedReader br = new BufferedReader(new FileReader(path))) {
    int i = 0;
    String line;
    while ((line = br.readLine()) != null)
      lines[i++] = line;
  } catch (IOException e) {
    e.printStackTrace();
  }
}
```

Listing 1. Java function to fill an array with a file.

Question 2. How many three or more letter palindromes did your program find? Which is your favourite one?

2.1. Example Executions

Figure 1 shows how the output of the code for the files `Palindrome.java` should look like on the standard out. All your programs must compile/run from the command line using `javac` and `java` commands, e. g.,

```
javac Program.java
java Program
```

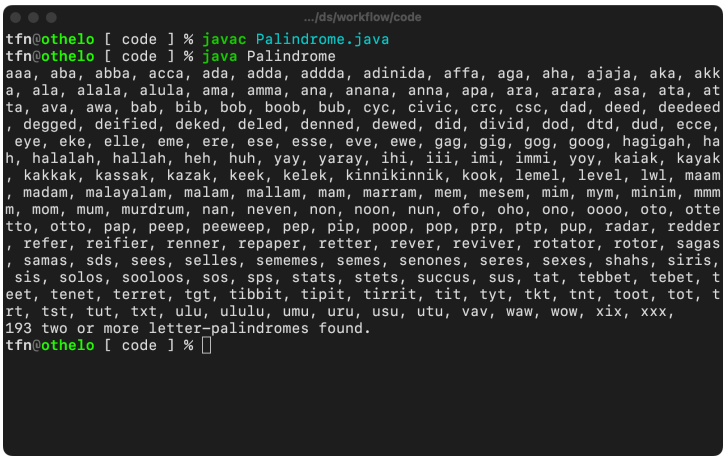

Figure 1. Example execution of the code for the first question.

2.2. Submission Instructions

- Submit the source file `Palindrome.java`. We don't need any dot class files.
- The PDF file `sol.pdf` should contain written answers to questions as well as a screenshot similar to the one in figure 1 that demonstrates your code being compiled and ran.

[1] Words that read the same forwards and backwards, e. g., madam.