

Introduction to Programming

Week 14

This week's practical looks some more at main methods.

A Past exam paper

This question forms the bulk of a past exam:

Write a Java class called `Palindrome` which identifies whether the text given on the command line forms a palindrome (i.e. has the same letter ordering forwards and backwards), so that executing

```
java Palindrome Sex at noon taxes
```

will display

```
"Sex at noon taxes" is a palindrome
```

whereas

```
java Palindrome hello world
```

will display

```
"hello world" is not a palindrome
```

The blues

Next read this web page about singing the blues:

<http://www.analogman.com/singblues.htm>

For examples of blues songs, try searching for “blow wind blow muddy waters lyrics”, “red rooster lyrics”, “crossroads lyrics” or “texas flood lyrics”.

Now, write a program to generate a random blues song using the structure and examples from the web page. Invent three verses and generate an appropriately named random author.

Next, adapt the program by allowing the user to provide key phrases/words on the command line.

Finally, allow the user to start as much of a song as they like and then have the computer finish it off in appropriate style. Inform the user if the input they have provided does not, for whatever reason, constitute ‘the blues’.