The Java™ Tutorials

Trail: Essential Classes **Lesson:** Regular Expressions

The Java Tutorials have been written for JDK 8. Examples and practices described in this page don't take advantage of improvements introduced in later releases.

Test Harness

This section defines a reusable test harness, <code>RegexTestHarness.java</code>, for exploring the regular expression constructs supported by this API. The command to run this code is <code>java RegexTestHarness</code>; no command-line arguments are accepted. The application loops repeatedly, prompting the user for a regular expression and input string. Using this test harness is optional, but you may find it convenient for exploring the test cases discussed in the following pages.

```
import java.io.Console;
import java.util.regex.Pattern;
import java.util.regex.Matcher;
public class RegexTestHarness {
    public static void main(String[] args){
        Console console = System.console();
        if (console == null) {
            System.err.println("No console.");
            System.exit(1);
        while (true) {
            Pattern pattern =
            Pattern.compile(console.readLine("%nEnter your regex: "));
            Matcher matcher =
            pattern.matcher(console.readLine("Enter input string to search: "));
            boolean found = false;
            while (matcher.find()) {
                console.format("I found the text" +
                    " \"%s\" starting at " +
                    "index %d and ending at index %d.%n",
                    matcher.group(),
                    matcher.start(),
                    matcher.end());
                found = true:
            }
            if(!found){
                console.format("No match found.%n");
       }
   }
}
```

Before continuing to the next section, save and compile this code to ensure that your development environment supports the required packages.

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