

```
// This a reusable test harness, for exploring the regular expression
constructs supported by this API.
//The application loops repeatedly, prompting the user for a regular
expression and input string.
```

```
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");
            }
        }
```

```
    }
}
```