Regular Expressions

Regular Expressions

Packages: java.util.regex

Class:

Matcher

Pattern

PatternSyntaxException

Regular Expressions

```
String pattern = "pattern";
Pattern regEx = Pattern.compile(pattern); // Create a Pattern object
// Now create matcher object.
Matcher m = regEx.matcher("Just a string have a pattern");
while (matcher.find()) {
 System.out.println(m.group());
```

x A character, ex: a, b, c

[abc] a, b, or c (simple class)

[^abc] Any character except a, b, or c (negation)

[a-zA-Z] a through z or A through Z, inclusive (range)

. Any character

\d A digit: [0-9]

\D A non-digit: [^0-9]

\s A whitespace character: [\t\n\x0B\f\r]

\S A non-whitespace character: [^\s]

\w A word character: [a-zA-Z_0-9]

\W A non-word character: [^\w]

- ^ The beginning of a line
- \$ The end of a line

X? X, once or not at all

X* X, zero or more times

X+ X, one or more times

X{n} X, exactly n times

X{n,} X, at least n times

X{n,m} X, at least n but not more than m times

Logical operators

XY X followed by Y

X|Y Either X or Y

(X) X, as a capturing group

Cách đánh số nhóm (group): từ trái qua phải.

```
VD: ((A)(B(C)))

1. ((A)(B(C)))

2. (A)

3. (B(C))
```

4. (C)