Matching Entire Strings

```
Pattern p = Pattern.compile("a*b");
Matcher m = p.matcher("aaaaab");
boolean b = m.matches();
```

Finding Matching Sub-strings

```
Pattern p = Pattern.compile("\\w+");
Matcher m = p.matcher("this is a test");
while (m.find()) {
    String matchStr = m.group();
    int matchStart = m.start();
    int matchEnd = m.end();
}
```

Example Regular Expressions

Any string (zero or more of any character)

• *

Any non-empty string (one or more of any character)

. +

Integer

-?\d+

Java identifier

$$[a-zA-Z_]\w*$$

Java file name

$$[a-zA-Z_]\w*\.java$$

Integer variable assignment

$$[a-zA-Z_]\w*\s*=\s*-?\d+;$$

CS Requirement

Many email addresses