[Java] Homework # 25 – RegEx Decomposition

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| --- | --- | --- |
|  | Text | RegEx |
| 01 | 94066-4126 or 94103 | /\d{5}(-\d{4})?/x |
| 02 | http://www.learn2test.net | /(https?:)\*(\/\/)\*(www\.)\*([A-Za-z0-9\.])+\.[a-z]{2,}/x |
| 03 | $15,000.01 | /\$(\d{1,3}\,)\*(\d{1,3})(\.)\*(\d{2})?/ |

**US Zip Code Comments**

|  |  |  |
| --- | --- | --- |
|  | RegEx | Comment |
| 01 | / | Beginning of regex |
| 02 | \d{5} | Match 5 digits |
| 03 | (-\d{4})? | Match hyphen and 4 digits 0 or 1 times |
| 04 | / | Ending of regex |
| 05 | x | Allow comments and whitespace |

**URL Format Comments**

|  |  |  |
| --- | --- | --- |
|  | RegEx | Comment |
| 01 | / | Beginning of regex |
| 02 | (https?:)\* | Match a *https:* or *http:* string 0 or more times |
| 03 | (\/\/)\* | Match // 0 or more times |
| 04 | (www\.)\* | Match *www.* 0 or more times |
| 05 | ([A-Za-z0-9\.])+ | Match characters in the range “A” to “Z”, “a” to “z”, “0” to “9” and dot character 1 or more times |
| 06 | \. | Match a dot “.” character |
| 07 | [a-z]{2,} | Match 2 or more of characters in the range “a” to “z” |
| 08 | / | Ending of regex |
| 09 | x | Allow comments and whitespace |

**US Currency Comments**

|  |  |  |
| --- | --- | --- |
|  | RegEx | Comment |
| 01 | / | Beginning of regex |
| 02 | \$ | Escaped dollar sign. Match “$” character |
| 03 | (\d{1,3}\,)\* | Match between 1 to 3 digits and (comma) “,” character 0 or more times |
| 04 | (\d{1,3})(\.)\* | Match between 1 to 3 digits and (dot) “.” character 0 or more times |
| 05 | (\d{2})? | Match between 1 to 2 digits 0 or 1 times |
| 06 | / | Ending of regex |
| 07 | x | Allow comments and whitespace |