**Homework # 12**

Please describe the following regex (**US Telephone number** format: 888-888-8888)

|  |  |  |
| --- | --- | --- |
|  | text | regex |
| 01 | 6504154545  650-415-4545  650.415.4545  650 415 4545  (650)-415-4545  (650).415.4545 | ^(?:(?:\+?1\s\*(?:[.-]\s\*)?)?(?:\(\s\*([2-9]1[02-9]|[2-9][02-8]1|[2-9][02-8][02-9])\s\*\)|([2-9]1[02-9]|[2-9][02-8]1|[2-9][02-8][02-9]))\s\*(?:[.-]\s\*)?)?([2-9]1[02-9]|[2-9][02-9]1|[2-9][02-9]{2})\s\*(?:[.-]\s\*)?([0-9]{4})(?:\s\*(?:#|x\.?|ext\.?|extension)\s\*(\d+))?$ |

**Example (US Currency):**

|  |  |  |
| --- | --- | --- |
|  | text | regex |
| 01 | $15,000.01 | /^\$(\d{1,3}(\,\d{3})\*|(\d+))(\.\d{2})?$/ |

|  |  |  |
| --- | --- | --- |
|  | regex | comment |
| 01 | / | # Beginning of regex |
| 02 | ^ | #  Start of line |
| 03 | \$ | #  Escaped dollar sign character |
| 04 | (\d{1,3} | #  Digits - min 1 and max 3 |
| 05 | (\, | #  Escaped comma character |
| 06 | \d{3} ) | #  Digits - exactly 3 |
| 07 | \* | #  0 or more times |
| 08 | | | #  Alternation (or) |
| 09 | (\d+ ))( | #  Digits |
| 10 | \. | #  Escaped dot character |
| 11 | \d{2}) | #  Digits - exactly 2 |
| 12 | ? | #  0 or 1 times |
| 13 | $ | #  End of line |
| 14 | / | # Ending of regex |
| 15 | x | # Allow comments & white space |