**Homework # 12**

Regexes for the following texts:

|  |  |  |
| --- | --- | --- |
|  | text | regex |
|  | 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+))?$ |

|  |  |  |
| --- | --- | --- |
|  | regex | comment |
| 01 | ^ | # start of line |
| 02 | ?: | # non-capturing group |
| 03 | \+ | # escaped + character |
| 04 | ? | # 0 or 1 time |
| 05 | \s | # space, tab or linefeed |
| 06 | \* | # 0 or more |
| 07 | \( | # escaped open parenthesis character |
| 08 | [2-9] | # any digit from 2 to 9 |
| 09 | [02-9] | # any digit from 0 to 9 except 1 |
| 10 | [02-8] | # any digit from 0 to 8 except 1 |
| 11 | | | # alternation |
| 12 | [.-] | # . or - |
| 13 | {2} | # 2 times |
| 14 | \d+ | # digits |
| 15 | $ | # end of line |