



Tecnológico de Monterrey

“Ejercicio 3- Tema 2”

Implementación de Métodos Computacionales(Gpo 3)

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Exercise 3.3.5: Write regular definitions for the following languages:

- a) All strings of lowercase letters that contain the five vowels in order.
- b) All strings of lowercase letters in which the letters are in ascending lexicographic order.
- c) Comments, consisting of a string surrounded by /* and */, without an intervening */, unless it is inside double-quotes (").

Incisos a y b

- a) $[b-d f-h j-n p-t v-z]^*a[b-d f-h j-n p-t v-z]^*e[b-d f-h j-n p-t v-z]^*i[b-d f-h j-n p-t v-z]^*o[b-d f-h j-n p-t v-z]^*u$
- b) $a^*b^*c^*d^*e^*f^*g^*h^*i^*j^*k^*l^*m^*n^*o^*p^*q^*r^*s^*t^*u^*v^*w^*y^*z^*$

Exercise 3.3.6: Write character classes for the following sets of characters:

- a) The first ten letters (up to “j”) in either upper or lower case.
- b) The lowercase consonants.
- c) The “digits” in a hexadecimal number (choose either upper or lower case for the “digits” above 9).
- d) The characters that can appear at the end of a legitimate English sentence (e.g., exclamation point).

Incisos a y c

- a) $[A-Ja-j]$
- c) $[0-9a-f]$