

Quiz-4: REs

Integer RE

The following RE is a good candidate for non-negative integers: "[0-9]*"

☐ True

☐ False

Integer RE

The following RE is a good candidate for non-negative integers: "[0-9]*"

☐ True

☐ False

Does the "" match the RE?

Fundamental RE operators

All regular expressions can be expressed in terms of concatenation or choice operators

☐ True

☐ False

Fundamental RE operators

- Fundamental RE operators are:
 - Concatenate: put the regexes next to each other
 - “|” : Choice: one or the other
 - “*” : Repeat: 0 or more copies
- Practically:
 - a^* roughly is the same as “” | “a” | “aa” | “aaa” ...
 - in theory, REs can accept strings of arbitrary length (not infinite strings though).
 - in practice, strings have a reasonable bound. Repeat (*) is a good abstraction though!

RE examples

which of the following strings do NOT match `ac*|b*`

☐ "" (empty string)

☐ ab

☐ acac

☐ acccc

☐ bbb

RE examples

$$ac^* | b^*$$

- “”
- “ab”
- “acac”
- “acccc”
- “bbb”

Let's work through them

RE experiences

Have you used regular expressions before? If so, in what language or tool did you use them, and for what application?