

Implementation

initial string \rightarrow regex \rightarrow

Array
Short form
mins
secs
milli secs

regex

\hookrightarrow regex.Matcher
regex.Pattern

\rightarrow otherwise valid

if (! matches)

"Invalid"

match groups ('error')

\leftarrow \leftarrow \leftarrow
work backwards with times

(if milli \geq 500)

(if secs \geq 60)

seconds + 1

secs = 60 - secs
mins + 1

if (mins \geq 45) else (mins \geq 90)

addTime = mins - 45 + seconds

mins = 45

seconds = 0