

Section 7: Regex

Due Date: Tuesday, May 9

0. Time Flies When You're Having Fun!

Write a regex expression that matches all 24-hour time formats (HH:MM). That is, hours 0 through 23 (inclusive) for the hours (HH), and 0 through 59 (inclusive) for the minutes (MM) separated by ':'. For example, 00:00 is a valid string, 23:59 is a valid string, and 05:09 is a valid string, but 5:09 is not valid (there must be two digits for both hours and minutes) and 25:60 is not valid (there is no "25th" hour, and no "60th" minute in standard 24-hour time).

Helpful Regex Reference:

[abc]	A single character of: a, b, or c	.	Any single character	(...)	Capture everything enclosed
[^abc]	Any single character except: a, b, or c	\s	Any whitespace character	(a b)	a or b
[a-z]	Any single character in the range a-z	\S	Any non-whitespace character	a?	Zero or one of a
[a-zA-Z]	Any single character in the range a-z or A-Z	\d	Any digit	a*	Zero or more of a
^	Start of line	\D	Any non-digit	a+	One or more of a
\$	End of line	\w	Any word character (letter, number, underscore)	a{3}	Exactly 3 of a
\A	Start of string	\W	Any non-word character	a{3,}	3 or more of a
\Z	End of string	\b	Any word boundary	a{3,6}	Between 3 and 6 of a

options: i case insensitive m make dot match newlines x ignore whitespace in regex o perform #{...} substitutions only once