# Regex

1. Define the regex for the following description of tokens:
   1. Any string that starts with character t.

^t.\*

* 1. Any string of at least length 3 that starts with t and ends with u.

^t.{1,}u$

* 1. Any string that specifies the range of numbers between 11 and 23.

^(1[1-9]|2[0-3])$

* 1. Any string that specifies a date in MM:DD:YYYY format.

^(0[1-9]|1[0-2])\:(0[1-9]|1[0-9]|2[0-9]|3[0-1])\:[0-9]{4}$

In C, an identifier is defined as a string of characters (both upper-case and lower-case), digits, and underscore “\_”, starting with either a character or underscore. Define the regex for identifiers in C.

^[a-zA-Z\_][a-zA-Z\_0-9]\*$

1. Give five strings that conform with the regex: **[0-9]+((E|e)(\+|\-)?[0-9]+)?**

* 123
* 456E7
* 789e-8
* 2345E+9
* 67890

# Toy scanner

A screen shot of a computer code

Description automatically generated