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Logging - exercises FOURTH group

Exercise 4

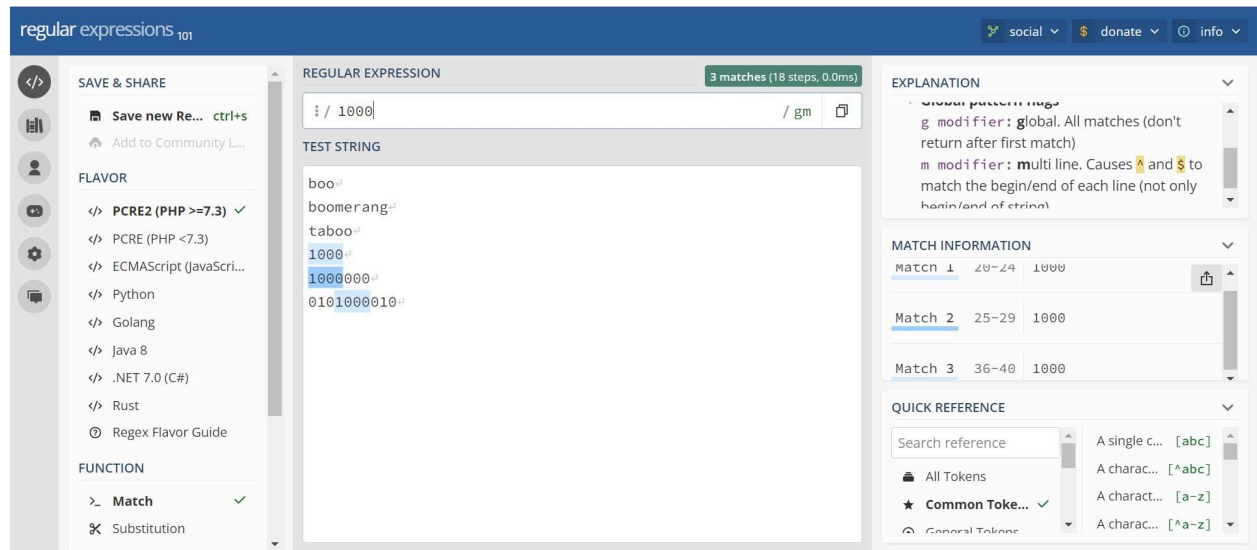
Task #1

- Use boo as a literal in your regex
- Discover what it selects

The screenshot shows the regular-expressions.io website. The 'REGULAR EXPRESSION' field contains the regex `/boo/`. The 'TEST STRING' field contains the text `boo
boomerang
taboo
1000
1000000
0101000010`. The 'EXPLANATION' panel shows that the `g` modifier is global, and the `m` modifier is multi-line. The 'MATCH INFORMATION' panel shows three matches: Match 1 (0-3), Match 2 (4-7), and Match 3 (16-19). The 'QUICK REFERENCE' panel shows a search reference for `[abc]`.

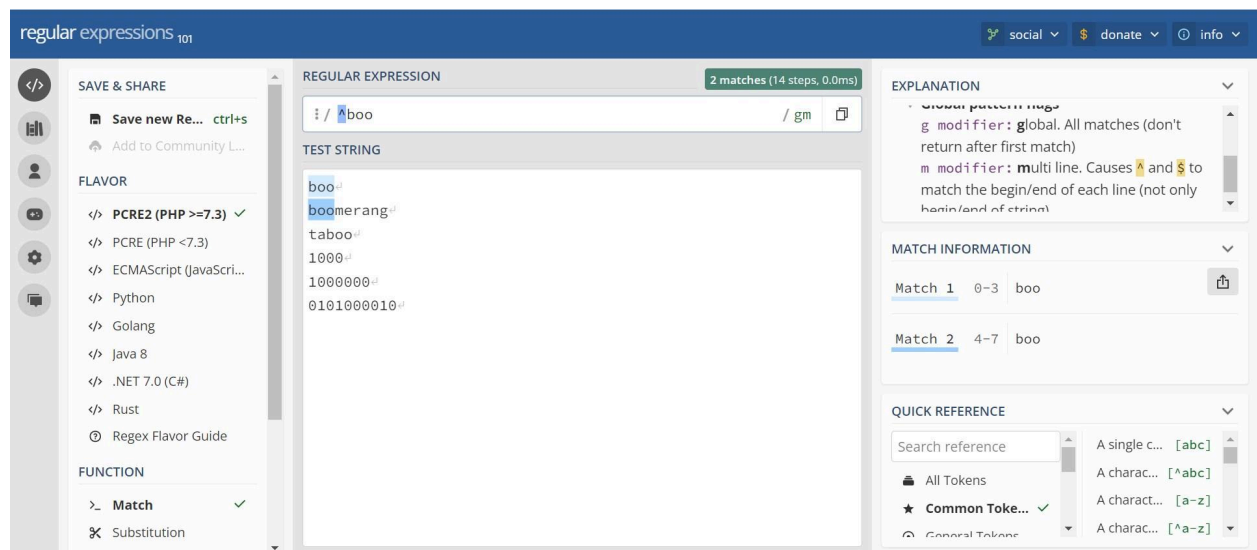
Task #2

- Use 1000 as a literal in your regex
- Discover what it selects



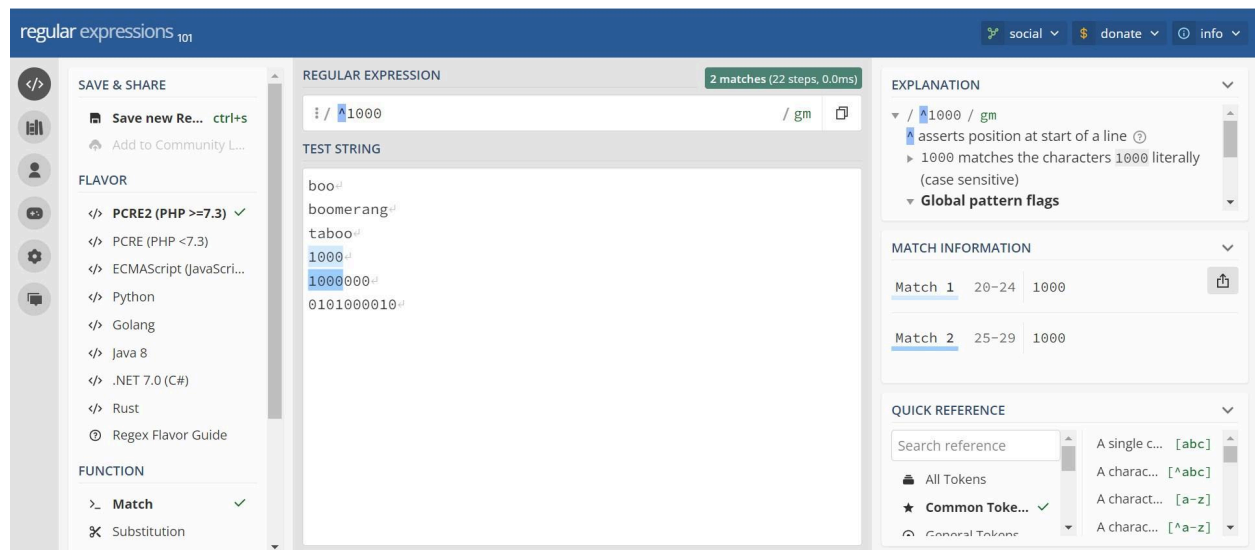
Task #3

- Use `^boo` as a literal in your regex
- Discover what it selects



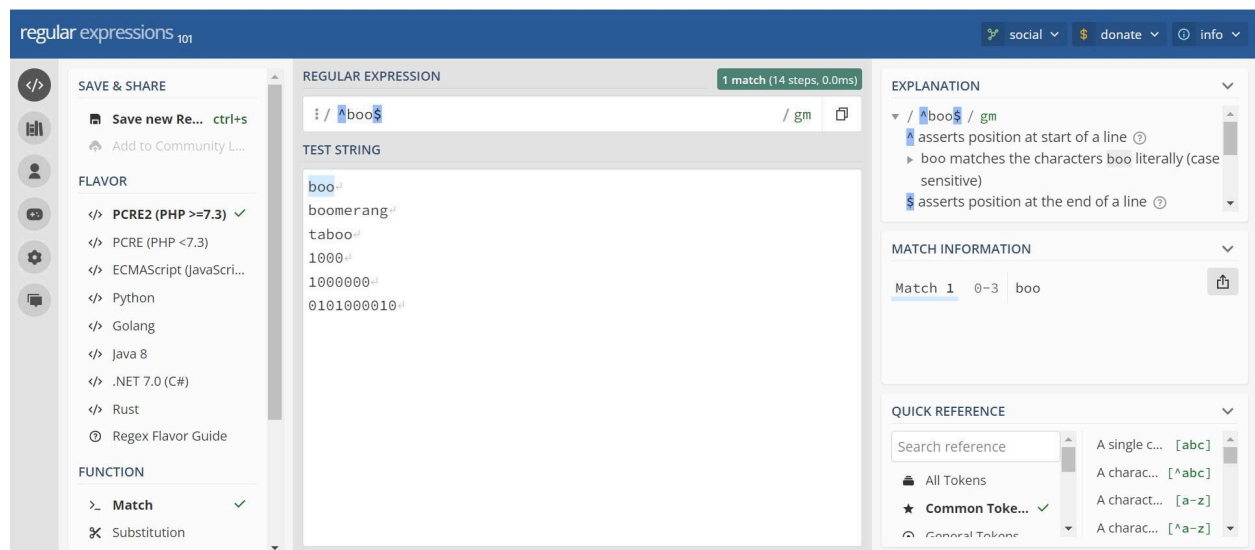
Task #4

- Use `^1000` as a literal in your regex
- Discover what it selects



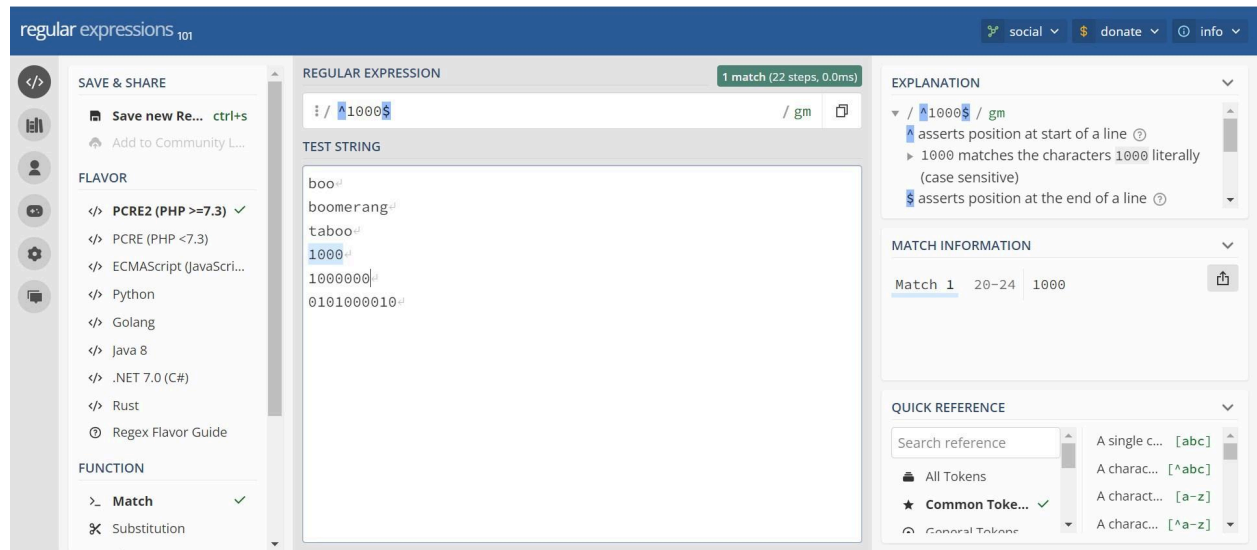
Task #5

- Use `^boo$` as a literal in your regex
- Discover what it selects



Task #6

- Use `^1000$` as a literal in your regex
- Discover what it selects



Exercise 5

Task #1

- Only use the following
 - Use `^`
 - Use `\d`
 - Use `\D`
 - Use `\s`
 - Use `\w`
- What is the fastest way?
- Select the whole TEST STRING as a single match.

regular expressions 101

social donate info

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FLAVOR

PCRE2 (PHP >=7.3) ✓

PCRE (PHP <7.3)

ECMAScript (JavaScri...

Python

Golang

Java 8

.NET 7.0 (C#)

Rust

Regex Flavor Guide

FUNCTION

Match ✓

Substitution

REGULAR EXPRESSION

1 match (2 steps, 0.1ms)

/gm

TEST STRING

22*Acadia*Avenue,*London,*East*End

EXPLANATION

Match a single character present in the list below [a-zA-Z0-9\D\s]

matches the previous token between one and unlimited times, as many times as

MATCH INFORMATION

Match 1 0-35 22*Acadia*Avenue,*London,*East*End

QUICK REFERENCE

Search reference

All Tokens

Common Token... ✓

General Tokens

A single c... [abc]

A charac... [^abc]

A charact... [a-z]

A charac... [^a-z]

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Rust

Regex Flavor Guide

FUNCTION

Match ✓

Substitution

REGULAR EXPRESSION

1 match (26 steps, 0.0ms)

/gm

TEST STRING

22*Acadia*Avenue,*London,*East*End

EXPLANATION

^ asserts position at start of a line

\d matches a digit (equivalent to [0-9])

\d matches a digit (equivalent to [0-9])

MATCH INFORMATION

Match 1 0-34 22*Acadia*Avenue,*London,*East*End

Group 1 3-9 Acadia

Group 2 10-16 Avenue

QUICK REFERENCE

Search reference

All Tokens

Common Token... ✓

General Tokens

A single c... [abc]

A charac... [^abc]

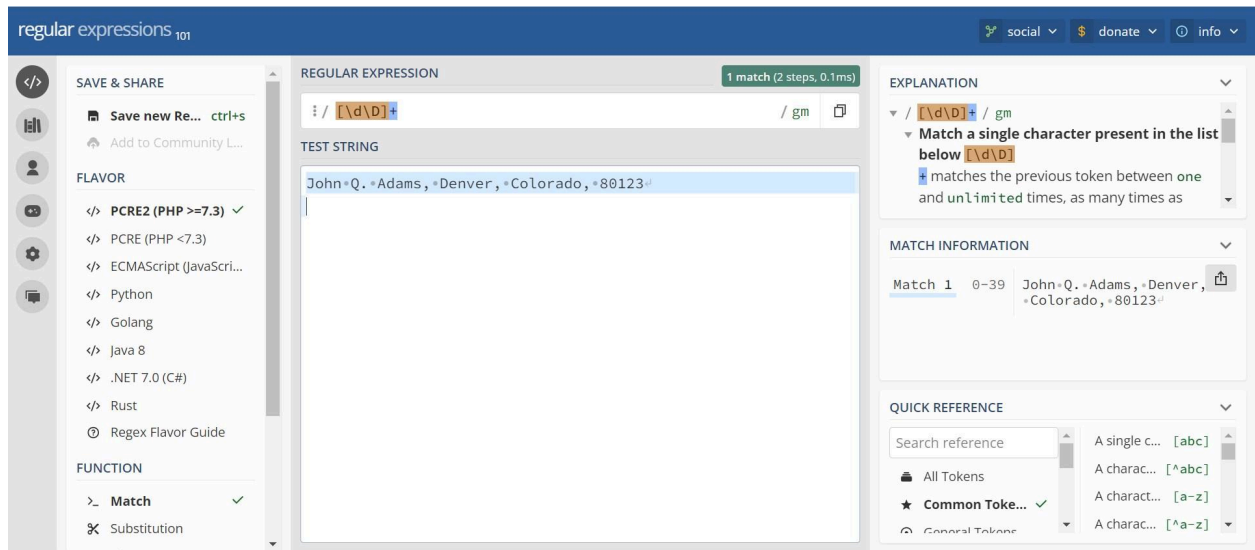
A charact... [a-z]

A charac... [^a-z]

Exercise 6

Task #1

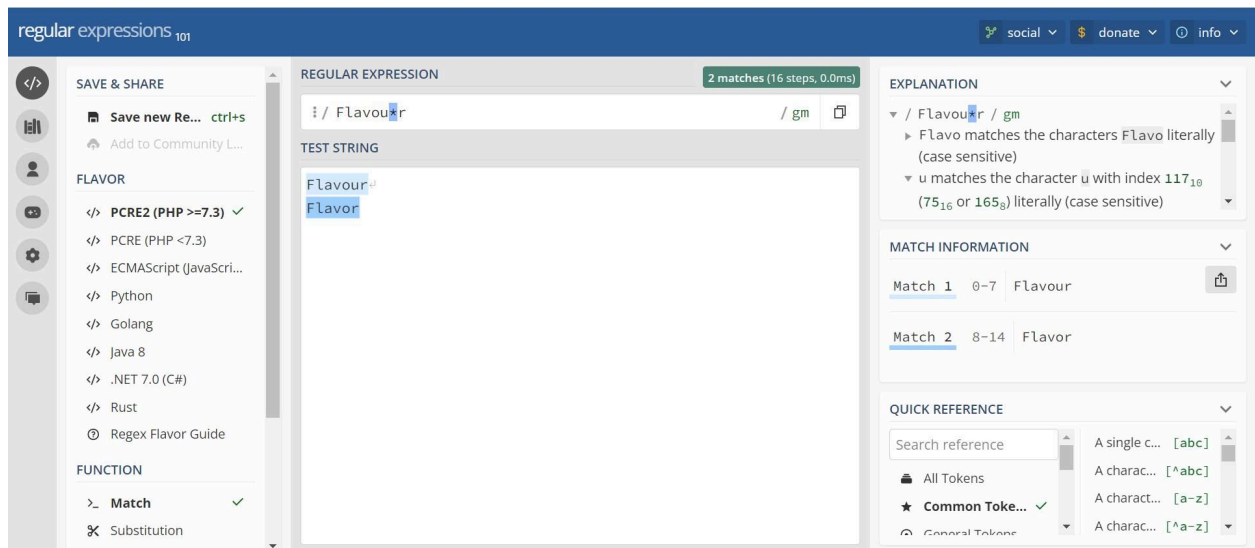
- Use only commas as literal characters.
- Only using the Metacharacters of /d and /D
- Select the whole TEST STRING as a single match.



Exercise 7

Task #1

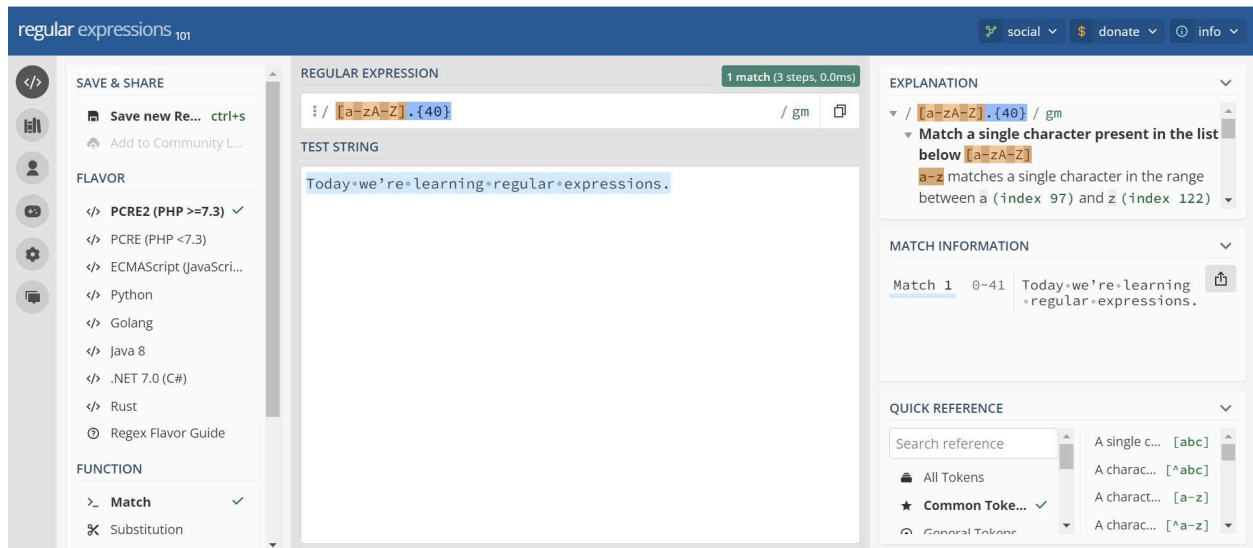
- Create a single REGEX that selects both words
- Select the whole TEST STRING as a single match



Exercise 8

Task #1

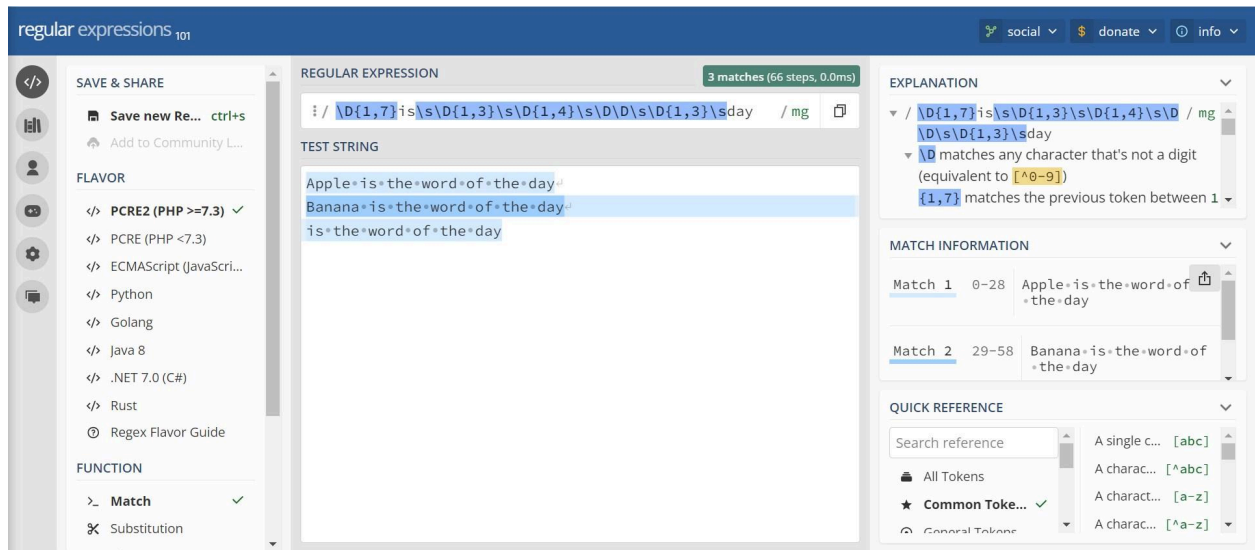
- Create a character class
- ONLY use that class to select the string
- Select the whole TEST STRING as a single match



Exercise 9

Task #1

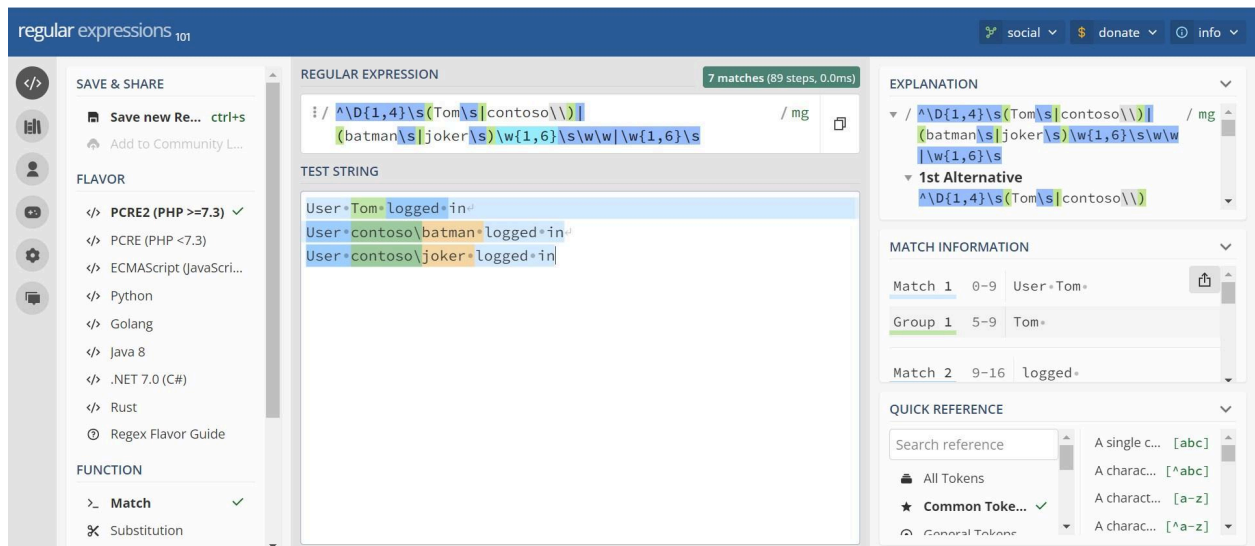
- Match all 3 strings with one REGEX
- The only literals you can use is "is" and "day"
- Select the whole TEST STRING as a single match
- Hint..... OPTIONALS are a thing



Exercise 10

Task #1

- Match all 3 strings with one REGEX
- Hint..... OPTIONALS are a thing



Exercise 11

Task #1

- Match both strings
- Must use a class

The screenshot shows the regular-expressions.io website interface. The main area displays the regular expression `/gr[a|e]y/gm` in the "REGULAR EXPRESSION" field. Below it, the "TEST STRING" field contains the text `gray` and `grey`. The "EXPLANATION" panel on the right shows the breakdown of the regex: `/gr[a|e]y/gm`, where `gr` matches the characters `gr` literally (case sensitive), and the 1st Capturing Group `[a|e]` matches the 1st Alternative `a`. The "MATCH INFORMATION" panel shows two matches: Match 1 (0-4) for `gray` and Match 2 (5-9) for `grey`. The "QUICK REFERENCE" panel provides a list of regex constructs and their corresponding escape sequences.

regular expressions 101

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PCRE (PHP <7.3)

ECMAScript (JavaScri...

Python

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Rust

Regex Flavor Guide

FUNCTION

Match ✓

Substitution

REGULAR EXPRESSION

2 matches (15 steps, 0.0ms)

TEST STRING

gray

grey

EXPLANATION

/ gr[a|e]y / gm

gr matches the characters gr literally (case sensitive)

1st Capturing Group [a|e]

1st Alternative a

MATCH INFORMATION

Match 1 0-4 gray

Group 1 2-3 a

Match 2 5-9 grey

QUICK REFERENCE

() Group Constructs

[] Character Classes

Flags/Modifiers

Substitution

Any whitespace... \s

Any non-whit... \S

Any digit \d

Any non-digit \D

Task #2

- Match both strings
- Must use a class

The screenshot shows the regular-expressions.io website interface. The main area displays the regular expression `\w{7}` and the test string `Adviser`. The results show two matches: `Adviser` (indices 0-7) and `Advisor` (indices 8-15). The explanation on the right states that `\w` matches any word character (equivalent to `[a-zA-Z0-9_]`) and `{7}` matches the previous token exactly 7 times. The match information table shows the following details:

Match	Indices	Matched Text
Match 1	0-7	Adviser
Match 2	8-15	Advisor

The quick reference section on the right lists various regex constructs and their corresponding escape sequences:

Construct	Escape Sequence
Any whitespace	<code>\s</code>
Any non-whitespace	<code>\S</code>
Any digit	<code>\d</code>
Any non-digit	<code>\D</code>

Task #3

- Match both strings
- Must use a class
- And... something else?

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.NET 7.0 (C#)

Rust

Regex Flavor Guide

FUNCTION

Match ✓

Substitution

REGULAR EXPRESSION

2 matches (6 steps, 0.0ms)

/ a?w{8} / gm

TEST STRING

aesthetic

esthetic

EXPLANATION

/ a?w{8} / gm

a matches the character a with index 97₁₀ (61₁₆ or 141₈) literally (case sensitive)

? matches the previous token between zero and one times, as many times as possible,

MATCH INFORMATION

Match 1 0-9 aesthetic

Match 2 10-18 esthetic

QUICK REFERENCE

() Group Constructs

[] Character Classes

Flags/Modifiers

Substitution

Any whitespace... \s

Any non-whit... \S

Any digit \d

Any non-digit \D

Task #4

- Match both strings
- Must use a class
- And... something else?

regular expressions 101

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Add to Community L...

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ECMAScript (JavaScri...

Python

Golang

Java 8

.NET 7.0 (C#)

Rust

Regex Flavor Guide

FUNCTION

Match ✓

Substitution

REGULAR EXPRESSION

2 matches (6 steps, 0.2ms)

/ ^\D{1,6}|\D+ / mg

TEST STRING

analog

analogue

EXPLANATION

/ ^\D{1,6}|\D+ / mg

1st Alternative ^\D{1,6}

^ asserts position at start of a line

\D matches any character that's not a digit (equivalent to [^0-9])

MATCH INFORMATION

Match 1 0-6 analog

Match 2 6-15 analogue

QUICK REFERENCE

Search reference

All Tokens

Common Token...

General Tokens

A single c... [abc]

A charac... [^abc]

A charact... [a-z]

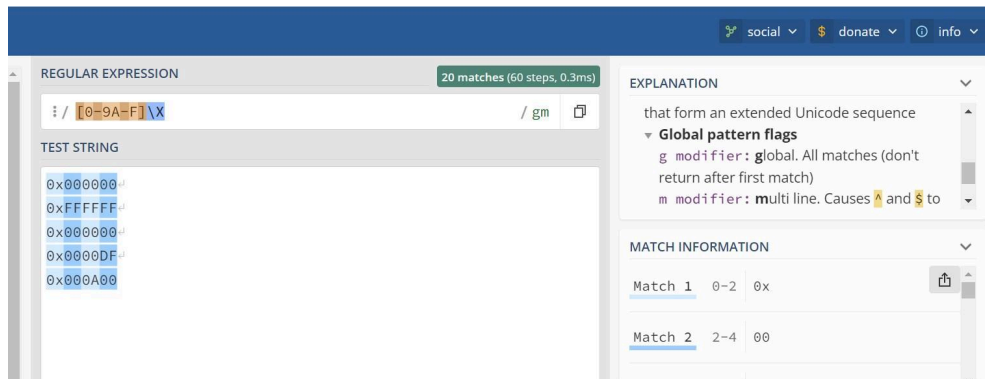
A charac... [^a-z]

Exercise 12

Select some memory registers

Task #1

- Match all strings
- Must use a classes built of base-16 ranges (hexadecimal)



Exercise 13

Select any MAC address

Task #1

Show your MAC address

```
Command Prompt
C:\Users\Cristian Barreno>ipconfig/all

Windows IP Configuration

Host Name . . . . . : DESKTOP-...
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) Dual Band Wireless-AC 8265
Physical Address. . . . . : 80:6E:8C:8A:00:00
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . : :: (Preferred)
Lease Obtained. . . . . : Saturday, March 9, 2024 4:37:28 PM
```

- Match any MAC address
- Must use a classes built of base-16 ranges (hexadecimal)

The screenshot shows the 'regular expressions 101' website interface. The 'REGULAR EXPRESSION' field contains the regex: `/[0-9-A-F]{2}-[0-9-A-F]{2}-[0-9-A-F]{2}-[0-9-A-F]{2}/gm`. The 'TEST STRING' field contains 'A8-6D-'. The 'EXPLANATION' panel shows the breakdown of the regex, highlighting the character classes `[0-9-A-F]` and the quantifier `{2}`. The 'MATCH INFORMATION' panel shows a single match for 'A8-6D-'. The 'QUICK REFERENCE' panel provides additional context for the tokens used.

Exercise 14

Select any MAC address

Task #1

- Use the `/d` command using `{}` matching the exact 5 characters

The screenshot shows the 'regular expressions 101' website interface. The 'REGULAR EXPRESSION' field contains the regex: `/\d{1,5}/gm`. The 'TEST STRING' field contains 'I don't agree that 80210 was a fun show'. The 'EXPLANATION' panel shows the breakdown of the regex, highlighting the digit token `\d` and the quantifier `{1,5}`. The 'MATCH INFORMATION' panel shows a single match for '80210'. The 'QUICK REFERENCE' panel provides additional context for the tokens used.

Task #2

- Use the the class [A-z]
- Select most characters with the class

The screenshot shows the 'regular expressions 101' website interface. The 'REGULAR EXPRESSION' field contains `/ [A-z]{1,27} / gm`. The 'TEST STRING' field contains the text: `Tim, Ron and Wallace, knew from their studies that regex could be used in looking for text within an operating systems and in files in that operating`. The 'EXPLANATION' panel shows that `[A-z]{1,27}` matches the previous token between 1 and 27 times, as many times as possible. The 'MATCH INFORMATION' panel shows two matches: Match 1 (0-3) for 'Tim' and Match 2 (5-8) for 'Ron'. The 'QUICK REFERENCE' panel shows a search reference for 'A single c...' with '[abc]' and 'A charac...' with '[^abc]'. The 'FUNCTION' panel shows 'Match' and 'Substitution' options.

Task #3

- Only using 2 characters in the expression, select the whole string

The screenshot shows the 'regular expressions 101' website interface. The 'REGULAR EXPRESSION' field contains `/ .* / gm`. The 'TEST STRING' field contains the text: `Christian, Tyler, and Reece, didn't like regex at all. But they knew it was important to learn for lots of reasons.`. The 'EXPLANATION' panel shows that `.*` matches any character (except for line terminators) and matches the previous token between one and unlimited times, as many times as possible. The 'MATCH INFORMATION' panel shows one match: Match 1 (0-115) for the entire string. The 'QUICK REFERENCE' panel shows a search reference for 'A single c...' with '[abc]' and 'A charac...' with '[^abc]'. The 'FUNCTION' panel shows 'Match' and 'Substitution' options.

Task #4

- Create a regular expression that will match the whole sentence as one match without using \w or \W.

The screenshot shows the regular-expressions.io interface. The regular expression `[^\d]+\d{4}[^\d]+` is entered in the 'REGULAR EXPRESSION' field. The 'TEST STRING' field contains the text: `Richard Simmons 1992 album is the greatest hip-hop album of all time, including Childish Gambino.`. The 'EXPLANATION' panel on the right states: 'Match a single character not present in the list below [^\d]' and 'matches the previous token between one and unlimited times, as many times as'. The 'MATCH INFORMATION' panel shows 'Match 1' at index 0-97, covering the entire string. The 'QUICK REFERENCE' panel lists various token types like 'A single c...' [abc], 'A charac...' [^\abc], 'A charact...' [a-z], and 'A charac...' [^a-z].

Exercise 15

Task #1

- Create a REGEX that will match
 - The date
 - the 4 digit EVID code
 - PROTIPS
 - The date can change
 - The time can change
 - The EVID can change
 - Don't use literals for what can change
- Select the whole TEST STRING as a single match

16