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**We're moving to Discord!**

In a few days, we will be leaving Slack in favor of Discord 🇳🇮

👉 **Click here for more information (/concepts/100033)**

0x06. Regular expression

Regex

DevOps

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⚙️ Weight: 1

📅 Project will start Oct 3, 2023 4:00 AM, must end by Oct 4, 2023 4:00 AM

✓ Checker was released at Oct 3, 2023 10:00 AM

☑️ An auto review will be launched at the deadline

Concepts

For this project, we expect you to look at this concept:

- Regular Expression (/concepts/29)

Background Context

For this project, you have to build your regular expression using Oniguruma, a regular expression library that which is used by Ruby by default. Note that other regular expression libraries sometimes have different properties.

Because the focus of this exercise is to play with regular expressions (regex), here is the Ruby code that you should use, just replace the regexp part, meaning the code in between the `//` :



```
sylvain@ubuntu$ cat example.rb
#!/usr/bin/env ruby

puts ARGV[0].scan(/127.0.0.[0-9]/).join
sylvain@ubuntu$
sylvain@ubuntu$ ./example.rb 127.0.0.2
127.0.0.2
sylvain@ubuntu$ ./example.rb 127.0.0.1
127.0.0.1
sylvain@ubuntu$ ./example.rb 127.0.0.a
```

Resources

Read or watch:

- Regular expressions - basics (/rltoken/6VeaVMauglxcFAwA27TBdQ)
- Regular expressions - advanced (/rltoken/rntjh3-3S86zt0Qy28L10w)
- Rubular is your best friend (/rltoken/RGkVuw1IZ_hoCCbLsiOAhg)
- Use a regular expression against a problem: now you have 2 problems (/rltoken/Vwm8lpMUGa4x_FBtlyUQ8g)
- Learn Regular Expressions with simple, interactive exercises (/rltoken/XsQ6rzS1uy-E6bnswUqIKg)

Requirements

General

- Allowed editors: `vi`, `vim`, `emacs`
- All your files will be interpreted on Ubuntu 20.04 LTS
- All your files should end with a new line
- A `README.md` file, at the root of the folder of the project, is mandatory
- All your Bash script files must be executable
- The first line of all your Bash scripts should be exactly `#!/usr/bin/env ruby`
- All your regex must be built for the Oniguruma library

Quiz questions

Great! You've completed the quiz successfully! Keep going! ([Show quiz](#))

Tasks

0. Simply matching School

mandatory



Your test string:

```

Holberton
holberton
H0lberton
aaahHolberton
Holbertonaaa

```

Match result:

```

Holberton
holberton
H0lberton
aaahHolberton
Holbertonaaa

```

Wrap words ☒ Show invisibles ☐ Ruby version 2.1.5

Requirements:

- The regular expression must match `School`
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method

Example:

```

sylvain@ubuntu$ ./0-simply_match_school.rb School | cat -e
School$
sylvain@ubuntu$ ./0-simply_match_school.rb "Best School" | cat -e
School$
sylvain@ubuntu$ ./0-simply_match_school.rb "School Best School" | cat -e
SchoolSchool$
sylvain@ubuntu$ ./0-simply_match_school.rb "Grace Hopper" | cat -e
$

```

Repo:

- GitHub repository: `alx-system_engineering-devops`
- Directory: `0x06-regular_expressions`
- File: `0-simply_match_school.rb`

☒ Done!

Help

Check your code

> Get a sandbox

1. Repetition Token #0

mandatory

Your test string:

```

hbn
hbtn
hbttt
hbtttn
hbttttn
hbtttttn
hbttttttn
hbtttttttn

```

Match result:

```

hbn
hbtn
hbttt
hbtttn
hbttttn
hbtttttn
hbttttttn
hbtttttttn

```

Wrap words ☒ Show invisibles ☐ Ruby version 2.1.5

Requirements:

- Find the regular expression that will match the above cases
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method

Repo:

- GitHub repository: `alx-system_engineering-devops`




- Directory: 0x06-regular_expressions
- (/)
- File: 1-repetition_token_0.rb

☒ Done!

Help

Check your code

 Get a sandbox

2. Repetition Token #1

mandatory

Your test string:

```
htn
hbtn
hbbtn
hbbtn
```

Match result:

```
htn
hbtn
hbbtn
hbbtn
```

Wrap words ☒ Show invisibles ☐ Ruby version 2.1.5

Requirements:

- Find the regular expression that will match the above cases
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method


Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions
- File: 2-repetition_token_1.rb

☒ Done!

Help

Check your code

 Get a sandbox

3. Repetition Token #2

mandatory

Your test string:

```
hbn
hbtn
hbttt
hbtttn
hbttttn
```

Match result:

```
hbn
hbtn
hbttt
hbtttn
hbttttn
```

Wrap words ☒ Show invisibles ☐ Ruby version 2.1.5

Requirements:

- Find the regular expression that will match the above cases
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method

Repo:

- GitHub repository: alx-system_engineering-devops




- Directory: 0x06-regular_expressions
- (/)
- File: 3-repetition_token_2.rb

☒ Done!

Help

Check your code

 Get a sandbox

4. Repetition Token #3

mandatory

Your test string:

```
hbn
hbon|
hbtn
hbttt
hbtttt
hbttttt
```

Match result:

```
hbn
hbon
hbtn
hbttt
hbtttt
hbttttt
```

Wrap words ☒ Show invisibles ☐ Ruby version 2.1.5

Requirements:

- Find the regular expression that will match the above cases
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method
- Your regex should not contain square brackets


Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions
- File: 4-repetition_token_3.rb

☒ Done!

Help

Check your code

 Get a sandbox

5. Not quite HBTN yet

mandatory

Requirements:

- The regular expression must be exactly matching a string that starts with `h` ends with `n` and can have any single character in between
- Using the project instructions, create a Ruby script that accepts one argument and pass it to a regular expression matching method

Example:



```
sylvain@ubuntu$ ./5-beginning_and_end.rb 'hn' | cat -e
$
sylvain@ubuntu$ ./5-beginning_and_end.rb 'hbn' | cat -e
hbn$
sylvain@ubuntu$ ./5-beginning_and_end.rb 'hbtn' | cat -e
$
sylvain@ubuntu$ ./5-beginning_and_end.rb 'h8n' | cat -e
h8n$
sylvain@ubuntu$
$
```

Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions
- File: 5-beginning_and_end.rb

☒ Done!

6. Call me maybe**mandatory**

This task is brought to you by a professional advisor Neha Jain (/rltoken/GqwvXAvTXR_JXqyTvZ4AzQ), Senior Software Engineer at LinkedIn.

Requirement:

- The regular expression must match a 10 digit phone number

Example:

```
sylvain@ubuntu$ ./6-phone_number.rb 4155049898 | cat -e
4155049898$
sylvain@ubuntu$ ./6-phone_number.rb " 4155049898" | cat -e
$
sylvain@ubuntu$ ./6-phone_number.rb "415 504 9898" | cat -e
$
sylvain@ubuntu$ ./6-phone_number.rb "415-504-9898" | cat -e
$
sylvain@ubuntu$
```

Repo:

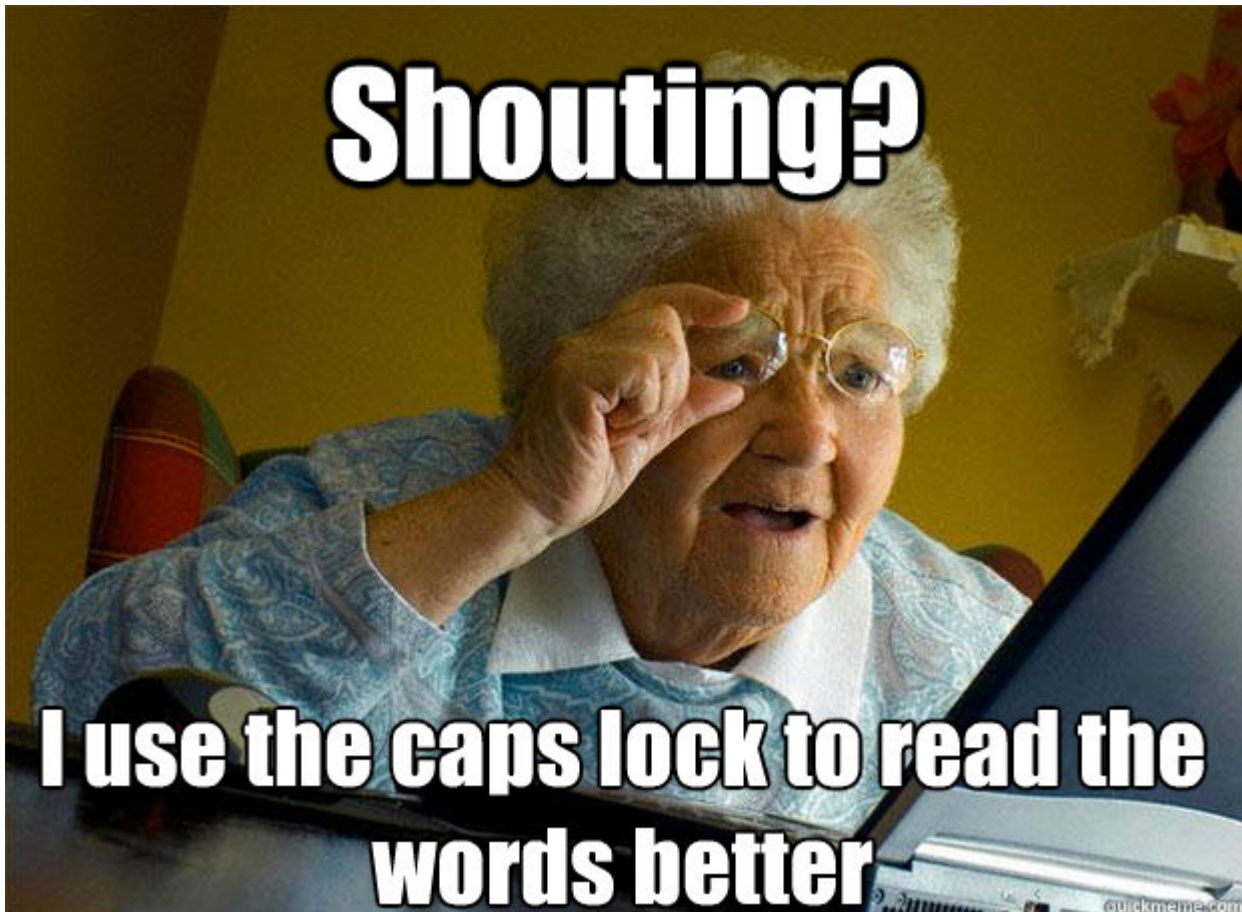
- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions
- File: 6-phone_number.rb

☒ Done!



7. OMG WHY ARE YOU SHOUTING?

mandatory



Requirement:

- The regular expression must be only matching: capital letters

Example:

```
sylvain@ubuntu$ ./7-OMG_WHY_ARE_YOU_SHOUTING.rb "I really h0pe VancouvEr posseSs Yummy S  
oft vAnilla Dupper Mint Ice Nutella cream" | cat -e  
ILOVESYSADMIN$  
sylvain@ubuntu$ ./7-OMG_WHY_ARE_YOU_SHOUTING.rb "WHAT do you SAY?" | cat -e  
WHATSAY$  
sylvain@ubuntu$ ./7-OMG_WHY_ARE_YOU_SHOUTING.rb "cannot read you" | cat -e  
$  
sylvain@ubuntu$
```

Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions
- File: 7-OMG_WHY_ARE_YOU_SHOUTING.rb

☒ Done!

Help

Check your code

[Get a sandbox](#)

8. Textme

#advanced

This exercise was prepared for you by Guillaume Plessis (/rltoken/2Rwwb9pSGKXSp3b3BcqkAw), VP of Infrastructure at TextMe. It is something he uses daily. You can thank Guillaume for his project on Twitter (/rltoken/Vz iLi3_Of797s9TsjCxJQ).

For this task, you'll be taking over Guillaume's responsibilities: one afternoon, a TextMe VoIP Engineer comes to you and explains she wants to run some statistics on the TextMe app text messages transactions.

Requirements:

- Your script should output: [SENDER],[RECEIVER],[FLAGS]
 - The sender phone number or name (including country code if present)
 - The receiver phone number or name (including country code if present)
 - The flags that were used

You can find a [log file here] (http://intranet-projects-files.s3.amazonaws.com/holbertonschool-sysadmin_devops/78/text_messages.log).

Example:

```
$ ./100-textme.rb 'Feb 1 11:00:00 ip-10-0-0-11 mdr: 2016-02-01 11:00:00 Receive SMS [SMS
C:SYBASE1] [SVC:] [ACT:] [BINF:] [FID:] [from:Google] [to:+16474951758] [flags:-1:0:-1:
0:-1] [msg:127:This planet has - or rather had - a problem, which was this: most of the
people on it were unhappy for pretty much of the time.] [udh:0:]'
Google,+16474951758,-1:0:-1:0:-1
$
$
$ ./100-textme.rb 'Feb 1 11:00:00 ip-10-0-64-10 mdr: 2016-02-01 11:00:00 Receive SMS [SM
SC:SYBASE2] [SVC:] [ACT:] [BINF:] [FID:] [from:+17272713208] [to:+19172319348] [flags:-
1:0:-1:0:-1] [msg:136:Orbiting this at a distance of roughly ninety-two million miles is
an utterly insignificant little blue green planet whose ape-descended] [udh:0:]'
+17272713208,+19172319348,-1:0:-1:0:-1
$
$ ./100-textme.rb 'Feb 1 11:00:00 ip-10-0-64-11 mdr: 2016-02-01 11:00:00 Sent SMS [SMSC:
SYBASE1] [SVC:backendtextme] [ACT:] [BINF:] [FID:] [from:18572406905] [to:14022180266]
[flags:-1:0:-1:-1:-1] [msg:136:Far out in the uncharted backwaters of the unfashionable
end of the western spiral arm of the Galaxy lies a small unregarded yellow sun.] [udh:
0:]'
18572406905,14022180266,-1:0:-1:-1:-1
$
$
$ ./100-textme.rb 'Feb 1 11:00:00 ip-10-0-64-11 mdr: 2016-02-01 11:00:00 Sent SMS [SMSC:
SYBASE1] [SVC:backendtextme] [ACT:] [BINF:] [FID:] [from:12392190384] [to:19148265919]
[flags:-1:0:-1:-1:-1] [msg:99:life forms are so amazingly primitive that they still thin
k digital watches are a pretty neat idea.] [udh:0:]'
12392190384,19148265919,-1:0:-1:-1:-1
$
```

Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x06-regular_expressions




- File: 100-textme.rb

(/)

☒ Done!

Help

Check your code

 Get a sandbox

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