

REGEX

You have to write **regular expressions** matching specific patterns. Use this page: <https://regex101.com/> and don't forget to set **python** flavor.

Tartalomjegyzék

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Leap years (2 points)

Match the leap years in this specific way: a positive integer divisible by 4, except multiples of 100. And it shouldn't have a trailing zero on the beginning.

Example

These should be **matched**:

- 4
- 8
- 12
- 16
- 160
- 164
- 1024
- 2008
- 2056
- 20080
- 1048576

These should **not match**:

- 1
- 2
- 3
- 004
- 5
- 9
- 11
- 13
- 21
- 22
- 23
- 100

- 0
- 00
- 0240
- 2000
- 1600
- 200800

Vowel harmony (2 points)

The expression should find words containing only lowercase, latin characters.

- A word should be matched if it uses only the same vowel every time
- contains at least two vowels
- It can start with any number of consonants, or a vowel.
- two vowels should not be next to each other.
- it should match a whole word

Hint

For vowels you can use:

```
[aeiou]
```

And for consonants:

```
[^aeiou\s]
```

Also put `\b` in front and to the end, to make sure it matches a whole word.

Example

These should be **matched**:

- mammal
- mama
- uru
- chlorophorm
- oppo
- imimi
- xerxes
- these

These should **not match**:

- mammut
- url
- choroid
- opponent
- coop
- iii

Handing in

Write the two regular expressions in an email to **info1hazi@gmail.com** from your math account. The subject should be:

A1_HW3_<username>

Deadline

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