Due Nov 27 at 1pm

**Allowed Attempts** Unlimited

Points 5

Questions 5

Available until Dec 4 at 11:59pm

Time Limit None

## Instructions

Prior to completing this quiz, be sure to read:

• Section 11.3: String Pattern Matching (p. 387-392)

Please also go over Practice Problems 11.4-11.6 in the textbook (solutions at the end of the chapter) before attempting this quiz.

This quiz was created for learning purposes. You may attempt this quiz as many times as you would like. The highest score *prior to the deadline* will count towards the final course grade. No late submissions will be accepted.

Take the Quiz Again

## **Attempt History**

Correct!

Correct!

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	5 out of 5

Score for this attempt: **5** out of 5 Submitted Nov 29 at 10:53am This attempt took 10 minutes.

Question 1		1 / 1 pts
that have som	th URL and HTML, we may find ourselves in situating evariation in spelling. For example, what if we were than look for both separately, we can search for both.	e looking for the word 'color' or
	findall function from the regular expressions (re) m from the re module:	odule. Fill in the blanks to import the
from	re import findall	
Answer 1:		
from		
Answer 2:		
import		

Question 2 1 / 1 pts

The findall() method requires two arguments:

- 1. pattern the string pattern that we are looking for
- 2. string the string that we are searching in

In the following example, we are looking for the pattern 'dog' in the string 'My dog ate my homework'.

```
print(findall('dog', 'My dog ate my homework'))
```

What makes the findall() method different from the string find() method is that our pattern does not have to be exactly as we search. For example:

```
print(findall('cl.ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck'))
```

will print the following:

```
['click', 'clack', 'cluck', 'cl ck']
```

Notice that the period (.) serves as a placeholder for any possible ONE character. Since 'click' matches the 'cl.ck' structure, then it is added to our findall list. The same applies to 'clack', 'cluck', and 'cl ck'. In 'cl ck', space counts as a character.

Take a moment to review the different possible string pattern searches on pages 387-389. Go through each of these lines to see what you get in return:

```
findall('cl..ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck') findall('cla*ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck') findall('cla+ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck') findall('cla?ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck')
```

Match the operator with the description:

Correct! Takes the place of any one character, and requires exactly one character

Correct! matches 0 or more repetitions of the previous character

Correct! matches 1 or more repetitions of the previous character

Correct! matches 0 or 1 repetition of the previous character

Question 3 1 / 1 pts

The square-brackets will indicate ranges of characters that you are looking for. You can indicate ranges of characters by typing the exact characters themselves, using a dash (-) to indicate all characters in between inclusive (in ASCII order), or using a combination of the exact letter and dashes.

```
## looking for exactly i or a
print(findall('cl[ia]ck', 'click clack cluck claack claack croak cr0000ak cricket quack cl ck clck'))
## looking for letters g through z
print(findall('cl[g-z]ck', 'click clack cluck claack claack croak cr0000ak cricket quack cl ck clck'))
## looking for letters a through e OR s through z
print(findall('cl[a-es-z]ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck'))
```

Each set of square brackets represents **EXACTLY ONE CHARACTER**. The following will only give ['click', 'clack'] and not 'cliack' or 'claick'.

```
print(findall('cl[ia]ck', 'click clack cliack claick claack cliick cl ck clck'))
```

Likewise, the following will only give ['cliack', 'claick', 'claack', 'cliick'] and not 'click' or 'clack'.

```
print(findall('cl[ia][ia]ck', 'click clack cliack claick claack cliick cl ck clck'))
```

## Compare the following lines:

beit

✓ bit

bait

Correct!

Correct!

```
print(findall('cl[ia][ia]ck', 'click clack cliack claick claack cliick cl ck clck'))
print(findall('cl[ia]ck', 'click clack cliack claick claick claick cl ck clck'))
print(findall('cl[ia]?[ia]?ck', 'click clack cliack claick claick claick cl ck clck'))
```

Which of the following are strings included in our list templist?

```
templist = findall('b[ia][ia]?t', 'bt beet beeet bet bets b3t bat baat bite bait beit biat boat bot b
iit byte')
```

	□ beet
Correct!	☑ baat
	□ bt
Correct!	☑ biat
	biet
	□ byt
	□ b3t
Correct!	☑ bat

	□ bite
Correct!	☑ biit

Question 4	1/			
The caret (^) operator inside square brackets will indicate all com For example, the following line will exclude all printouts that matc 'clack'. Note, square brackets serve as a placeholder for only one see the output)	h the given format except 'click'			
findall('cl[^ia]ck', 'click clack cluck claack claaack croak cr0000a	k cricket quack cl ck clck')			
We can give ranges as usual.				
<pre>## looking for all strings with one letter in between cl and ck, EXCEPT i or a findall('cl[^ia]ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck') ## looking for one letter in between cl and ck, EXCEPT letters s through z findall('cl[^s-z]ck', 'click clack cluck claack claaack croak cr0000ak cricket quack cl ck clck') ## looking for all strings with one letter in between cl and ck, EXCEPT letters a through e and s thr z</pre>				
findall('cl[a-es-z]ck', 'click clack cluck claack claaack croak cr00	00ak cricket quack cl ck clck')			
Which of the following are strings included in our templist?				
<pre>templist = findall('b[^ia][^ia]t', 'bt beet beeet bet bets b3t bat b biit byte')</pre>	aat bite bait biat beit boat bot bo			
□ baat				
□ byt				
□ bot				
☑ beet				
☑ boot				
□ boat				
□ bet				
□ bit				
□ biit				
□ bt				

	Question 5	1 / 1 pts		
	The   operator means "or". For example, in the following line, we are simply looking for 'Hello 'Goodbye' in our variable teststring. (Don't forget to print to see the output.)	' or		
	findall('Hello Goodbye', teststring)			
	Note, we can combine the string-pattern matching concepts from above with the   operator.			
	In the following, we are looking for 'cl[iu]ck' OR 'cla*ck'.			
	<pre>print(findall('cl[iu]ck cla*ck', 'click clack cluck claack claaack croak cr00000ak cricket quack cl k'))</pre>	ck clc		
	Which of the following are strings included in our templist?			
	<pre>templist = findall('be+t b[h-p]t', 'bt beet beeet bet bets b3t bat baat bite bait biat beit boat b biit byte')</pre>	ot boot		
	□ biit			
	boot			
Correct!	☑ beeet			
	□ bait			
correct!	☑ bit			
correct!	☑ bot			
	□ boat			
	□ byt			
Correct!	☑ bet			

Quiz Score: 5 out of 5