Regular Expressions: Concept Challenge



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Concept Challenge: Procedure

- Pause Try to solve the problem yourself
- Discuss with other learners (if you can)
- Watch the UC San Diego learners video
- Answer the question again
- Confirm your understanding with our explanation



```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?" d.getTokens("[1-3]"); 

["1", "2", "3", "3"]
```

Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

Which of the following regular expressions can you insert in the blank so that it will give the output shown? Select all that apply.

Expression	Matches
"a*"	Zero or more a's
"a+"	1 or more a's
"[a-f]"	Any character between a and f
"[^a-cz]"	Any character which is not between a-c and not z
"[abc]+"	1 or more of the character a, b, or c in a row
"abc"	The characters abc in a row
"a b"	The character a or the character b

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?" d.getTokens("[1233]"); >>

A. "[1233]"
```

Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[1233]"); → ["1", "2", "3", "3"]

A. "[1233]"

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?" d.getTokens("[1,2,33]");

B. "[1,2,33]"
```

Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[1,2,33]");

[",", "1", "2", "3", "3"]

B. "[1,2,33]"

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[0-9]+"); 

C. "[0-9]+"
```

Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[0-9]+");

C. "[0-9]+"

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[1-3]*"); 

D. "[1-3]*"
```

Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("[1-3]*"); \rightarrow

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

d.getTokens("1|2|33"); 

E. "1|2|33"
```

```
Assume you have a Document object, d, whose text is "Splitting a string, it's as easy as 1 2 33! Right?"

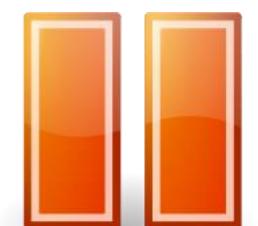
d.getTokens("1|2|33"); → ["1", "2", "33"]

E. "1|2|33"
```



So... Which is better?

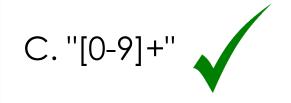




So... Which is better?



So... Which is better?



E. "1 | 2 | 33"

So... Which is better?

Option C is FAR more versatile. It captures ANY non-negative integer (not just 1, 2, and 33).