

### Question 1

Which regular expression symbol represents one or more occurrences of a specific character? 1 / 1 point

`\d`

`+`

`*`

`\w`

Correct

The symbol `+` represents one or more occurrences of a specific character.

### Question 2

As a security analyst, you are responsible for finding employee IDs that end with the character and number sequence "a6v". Given that employee IDs consist of both numbers and alphabetic characters and are at least four characters long, which regular expression pattern would you use? 1 / 1 point

`"a6v"`

`"\w*a6v"`

`"\w+a6v"`

`"\wa6v"`

Correct

The regular expression `"\w+a6v"` matches strings that consist of both numbers and alphabetic characters, are at least four characters long, and end with the sequence "a6v". There must be at least one other character before "a6v", so `"\w+"` is needed to match to one or more alphanumeric characters. Then, the required ending sequence is "a6v".

### Question 3

You have imported the `re` module into Python with the code `import re`. You want to use the `findall()` function to search through a string. Which function call enables you to search through the string contained in the variable `text` in order to return all matches to a regular expression stored in the variable `pattern`? 1 / 1 point

`re.findall(text, pattern)`

`findall(text, pattern)`

`re.findall(pattern, text)`

`findall(pattern, text)`

Correct

The function call `re.findall(pattern, text)` enables you to do this. The `re.findall()` function returns a list of matches to a regular expression. You must specify that this function comes from the `re` module. The first argument is the regular expression pattern that you want to match. In this case, it is found in the variable `pattern`. The second argument indicates where to search for this pattern. In this case, this is the string assigned to the variable `text`.

#### Question 4

Which of the following strings would Python return as matches to the regular expression pattern "\w+"?  
Select all that apply. 1 / 1 point

"#name"

""

"3"

Correct

The strings "3" and "FirstName" match the regular expression pattern "\w+". The \w symbol matches with any alphanumeric character. When combined with the + symbol, it represents one or more occurrences of any alphanumeric character. Because "3" is a string that contains one alphanumeric character, it matches the regular expression.

"FirstName"

Correct

The strings "3" and "FirstName" match the regular expression pattern "\w+". The \w symbol matches with any alphanumeric character. When combined with the + symbol, it represents one or more occurrences of any alphanumeric character. Because "FirstName" is a string that contains multiple alphanumeric characters, it matches the regular expression.