



RegEx & Debugging in JavaScript - Quiz

Below is a scored review of your assessment. All questions are shown.



Correct Answer



Partially Correct



Incorrect Answer

- 1 The method that performs the search-and-replace operation to strings for pattern matching is \_\_\_\_\_

**Your Answer** replace()

**Correct Answer** replace()

### Justification

The `replace()` method is used to perform search-and-replace operations on strings based on a pattern match. It takes two arguments - the pattern to search for (either as a string or a regular expression) and the replacement string. The method then returns a new string with all occurrences of the pattern replaced with the replacement string

2

What will be the output of the following JavaScript code?

```
console.log(/\d/.test("1"));
```

Your Answer

True

Correct Answer

True

### Justification

The regular expression `/\d/` matches any digit character, and it will return true as there is a digit "1" in the provided string "1".

3

What would result from the following statement in JavaScript using regular expression methods?

```
var str = "123 456 789";  
var result = str.split(/\s+/);  
console.log(result);
```

**Your Answer** ["123", "456", "789"]

**Correct Answer** ["123", "456", "789"]

### Justification

In the given statement, the string "123-456-789" is split using the regular expression pattern "/-/", which matches the hyphen character "-". The split() method returns an array of substrings that are separated by the matching pattern. Therefore, the result of the statement would be an array of three strings: ["123", "456", "789"].

**4** What does the subexpression `/java(script)?/` result in?

**Your Answer** It matches "java" followed by the optional "script"

**Correct Answer** It matches "java" followed by the optional "script"

### Justification

In a regular expression, placing a question mark "?" after a subexpression makes it optional, which means the subexpression may appear zero or one time. In the given regular expression `/java(script)?/`, the subexpression `"(script)"` is optional because it is followed by a question mark. Therefore, the regular expression matches "java" followed by zero or one occurrence of "script". It will match "java" alone or "javascript".

## 5 What is it called when we make a mistake in the script?

**Your Answer** Bug

**Correct Answer** Bug

### Justification

In programming, when a mistake is made in the code, it is commonly referred to as a "bug". This can cause unexpected behavior or errors when the code is run. The process of finding and fixing these bugs is called "debugging".

6

What will be the output of the following JavaScript code?

```
console.log(/[adf]+/.test("a"));
```

Your Answer

True

Correct Answer

True

### Justification

The regular expression `[adf]+` matches one or more occurrences of either "a", "d", or "f". Given the input "a", the regular expression matches the character "a" (one occurrence), and the `test()` method returns true as the input string matches the specified pattern.

**7** What is the most essential purpose of parentheses in regular expressions?

**Your Answer**

Define subpatterns within the complete pattern

**Correct Answer**

Define subpatterns within the complete pattern

### Justification

Parentheses in regular expressions are used to group parts of a pattern together and to define subpatterns within the complete pattern. This can be useful for applying repetition or alternation to a specific subpattern or capturing a specific portion of the matched string. The grouped subpatterns can also be used for back-referencing in replacement strings.



8 The '\$' present in the RegExp object is called a \_\_\_\_\_

**Your Answer** metacharacter

**Correct Answer** metacharacter

### Justification

In a regular expression (RegExp), the symbol '\$' is a metacharacter that matches the end of a string. Metacharacters have a special meaning in regular expressions and are used to define search patterns.

## 9 What is the tool used to debug JavaScript code in real-time?

**Your Answer** Chrome DevTools

**Correct Answer** Both a and b

### Justification

Both Chrome DevTools and Firebug can be used to debug JavaScript code in real-time. Chrome DevTools is a set of web developer tools built into the Google Chrome browser. It includes a debugger that allows you to step through JavaScript code, set breakpoints, and inspect variables. Firebug is a Firefox extension that provides a similar set of tools for web developers. It also includes a debugger and the ability to set breakpoints and inspect variables.

10

What will be the output of the following JavaScript code?

```
const regex = /[amn]?/;  
const string = "a";  
console.log(regex.test(string));
```

Your Answer                      True

Correct Answer                      True

### Justification

The regular expression `/[amn]?/` matches zero or one occurrence of the characters "a", "m", or "n". The `test()` method returns true

Page 1 of 1

Summary

I'm done.

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