Oefenopgaven Intermediate JavaScript Programming Techniques 2

Vraag 1 van 28

A user runs the following script:

```
var x = prompt("Enter an integer between 10 and 15");
            for (a = 1; a < x; a++) {
                if (a == 4)
                continue;
                else
                document.write(a);
            }
```

What will be the output on the screen, if the value entered by the user at the prompt is 10?

A. 12356789

B. 123456789

C. 12345678910

D. 1235678910

Vraag 2 van 28

What will happen if the break statements in the following code block are replaced with the continue statements? (Assume that the value of test is 'C'.)

```
switch(test) {
            case 'A': alert("Excellent."); break;
            case 'B': alert("Good."); break;
            case 'C': alert("Average."); break;
            case 'D': alert("Below average."); break;
            default: ("Disqualified."); break;
            }
```

A. Only the "Average." alert message will be displayed.

B. All the alert messages in the switch statements will be displayed.

C. Three alert messages "Average.", "Below average.", and "Disqualified." will be displayed.

D. SyntaxError.

Vraag 3 van 28

Consider X and Z to be true and Y to be false, which of the following conditions will return false?

A. X || Y

B. Y && Z

C. X && Z

D. Y || Z

Vraag 4 van 28

Which of the following statements will execute only if the conditions A and B are true?

A. if (A) && if (B)

B. if (A || B)

C. if (A) & if (B)

D. if (A && B)

Vraag 5 van 28

Which JavaScript statement should you use to repeat a group of statements for some particular range of values?

A. for

B. do...while

C. continue

D. if...else

Vraag 6 van 28

Which of the following statements is true of control structures?

A. They make decisions based on Boolean values.

B. They are exclusive to JavaScript.

C. They are used in code to avoid program errors.

D. They are methods that return at least one value.

Vraag 7 van 28

Which of the following can be a substitute for the nested if-else statements?

A. switch

B. while

C. for

D. break

Vraag 8 van 28

What is the purpose of the switch statement?

A. To compare a value against other values, to search for a match.

B. To repeat a group of statements for some particular range of values.

C. To exit a loop that would otherwise continue to execute.

D. To force the flow of control back to the top of a loop.

Vraag 9 van 28

Which of the following is true about the do-while statement?

A. It executes only if the condition is true.

B. It tests a condition prior to running a block of code.

C. It can take an optional condition as an argument.

D. It always executes at least once regardless of the condition.

Vraag 10 van 28

Consider the following code:

```
for (X; Y; Z)
```

What does Y represent in this statement?

A. The loop counter increment or decrement.

B. The condition under which the loop will execute.

C. The loop counter variable initialization expression.

D. The highest value that the counter variable may reach.

Vraag 11 van 28

Consider the following code snippet:

```
var x = 100;
  while (x > 5) {
    x--;
  }
```

What will be the value of x after the execution of the given code snippet?

A. 5

B. 4

C. 6

D. 100

Consider the following code:

```
<script type="text/javascript">
var myPet= "rabbit";
switch (myPet) {
   case "Rabbit":
   document.write("My pet is a Rabbit.");
   break;
   case "Frog":
   document.write("My pet is a Frog.");
   break;
   default:
   document.write("I do not have a pet.");
}
</script>
```

What will be the output of the given code block?

A. My pet is a Rabbit.
   My pet is a Frog.
   I do not have a pet.

B. My pet is a Rabbit.
   I do not have a pet.

C. I do not have a pet.

D. My pet is a Rabbit.

Which type of statement provides a way to exit a loop that would otherwise continue to execute?

A. break

B. while

C. for

D. continue

What is the purpose of the break statement in JavaScript?

A. To exit a control structure.

B. To destroy unused variables.

C. To terminate the current iteration and jump over the next iteration of the loop.

D. To flush system memory.

Which of the following loops should you use if a loop must run at least once even if the condition is false?

A. while

B. for

C. do...while

Which JavaScript statement is used to force the flow of control back to the top of a loop?

A. continue

B. for

C. while

D. break

Consider the following code:

```
<script type="text/javascript">
            var j = 0,
                i;
            for (i = 0; i < 10; i++) {
                document.write(i + " " + ");
                j += i;
            }
            document.write("=" + j);
        </script>
```

What is the output when this script is run in the browser?

A. $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + = 45$

B. $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + = 55$

C. $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 0123456789$

D. $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 012345678910$

Consider the following while and do-while loops:

```
// while loop
            var x = 1;
            while (x > 0) {
            document.write("a");
            x--;
            }
// dowhile loop
            var x = 1;
            do {
            document.write("a");
            x--;
            } while (x > 0);
```

How many times will each of these loops run?

A. while 1, do-while 2

B. while 0, do-while 1

C. while 1, do-while 1

D. while 2, do-while 1

Which JavaScript statement should you use to test for a single condition and branch to a process?

A. if

B. while

C. if...else

D. for

Consider the following code block:

```
if (test == 10) {
            alert("Disqualified.");
        } else if (test == 25) {
            alert("Passed with grace marks.");
        } else if (test == 40) {
            alert("Passed.");
        } else if (test == 50) {
            alert("Passed with honors.");
        } else {
            alert("Inconclusive score.");
        }
```

Which statement is best suited to replace the given code block?

A. while

B. if statements without the else block

C. for

D. switch

Consider the following code snippet:

```
if (example = 25) {
            document.write("Correct answer.");
        } else {
            document.write("Wrong answer.");
        }
```

Assuming the value of example is 10, what will be the output of the code snippet?
A. Wrong answer.

B. Syntax error.

C. Correct answer.

D. Blank screen, no output.

The continue statement can be used:
A. within a for loop or a while loop.

B. only within a for loop.

C. only with a break statement.

D. only with a for loop or a while loop.

Which code will display an alert if the variable timerMinutes has a value 10?

A. `if (timerMinutes == 10) alert("Time Expired!");`

B.
```
if ("timerMinutes" = 10) {
   alert("Time Expired!");
}
```

C.
```
if ("timerMinutes" == 10); {
   alert("Time Expired!");
}
```

D. `if ("timerMinutes" = 10) alert("Time Expired!");`

Consider the following code:

```
<script type="text/javascript">
          var day = "Thursday";
          if(day < "Wednesday"){
            window.alert("It's before today");
          }
          else{
            window.alert("It's after today")
          }
          </script>
```

What will the window alert box display when the script is run in the browser?

A. It's after today

B. It's before today

C. Error will occur because you cannot perform a Boolean operation on a string.

D. It's before today
   It's after today

Consider the following code:

```
<script type="text/javascript">
          var test = 100;
          if(test <= 6 && test >= 200 || test != 2) {
            window.alert("Good");
          }
          else{
            window.alert("Bad");
          }
          </script>
```

What is the expected result when this script is run in the browser?

A. The window alert box will display Bad.

B. The window alert box will display Good.

C. The window alert box will not appear because there is an error in the code.

D. The window alert box will display Good, then the user clicks the OK button, it will display Bad.

Vraag 26 van 28

What is the purpose of the while statement?

A. To execute a block of code for as long as a condition is true.

B. To execute a block of code until a condition is true.

C. To delay execution of a block of code until a condition is true.

D. To delay execution of a block of code for as long as a condition is true.

Vraag 27 van 28

Consider the following expression:

```
var num = "10";
isNaN(num);
```

What value is returned by the isNaN() method?

A. false

B. true

C. undefined

D. null

Vraag 28 van 28

What will be the output of the following code block?

```
for (a = 10; a > 0; a--) {
        document.write(a + ", ");
        if (a == 5) break;
    }
```

A. 10, 9, 8, 7, 6,

B. 10, 9, 8, 7, 6, 5,

C. 10, 9, 8, 7, 6, 4, 3, 2, 1

D. 10, 9, 8, 7, 6, 5, 4,