Svujan

L1 [12,22,9

43

```
1) What will be the output of the following code?
1.     if (function f(){}) {
2.         alert(typeof f);
3.     }
        oundefined
        function
        onull
        object
        othere is an error in the code

2) What will be the result of this example?
function f() {
    let a = 5;
    return new Function('b', 'return a + b');
}
```

```
L1-12
L2-22
L3-9
L3
```

```
alert( f()(1) );

o 1
6
o undefined
o NaN
o there will be an error
```

the error will occur

```
4) What the alert will output?
   alert(str); // ?
   var str = "Hello";
   o Hello

✓ undefined

   o there will be an error
\swarrow 5) Attentively look at the code syntax. What will be the output?
   let f = function(x) {
     alert(x)
   }
   (function() {
     f(1)
   }())
   o _no result

✓ output 1

    output undefined

    there will be an error

  6) Under what condition elem.scrollHeight == elem.clientHeight?
   o element content completely scrolled down
   o page is scrolled so that element is fully visible and is in the border of the window
   o the element height is equal to scroll bar height
 element context is completely visible, has no scroll
  o the element has no padding
 7) How can we get full height of block DOM-element, if it has border and padding?
  parseInt(elem.style.width)
  o parseInt(getComputedStyle(elem).width)

✓ elem.offsetWidth

    elem.clientWidth
```

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8) Here is the button  id="elem"></putton>, how can we show the string
"<hello>"?
The result has to be like this:
<!--+ run -->
<button id="elem">&lt;hello&gt;</button>
elem.innerHtml = "<hello>"
o elem.innerText = "<hello>"
 o elem.textContent = "<hello>"
 o elem.setText("<hello>")
 9) Link <a href="..." id="link"> has event listener:
 link.addEventListener('click', function(event) {
   // ...
 });
 What the code event listener should consist to prevent redirection on click?
 If several of the listed above are suitable, select several
 o event.stopPropogation()
  o event.stopImmediatePropogation()
 event.preventDefault()
  o return false
  o event.cancel()
10) How can we get Dom-element form in the document?
  <!DOCTYPE HTML>
  <html>
  <body>
    <form name="myform">...</form>
  </body>
   </html>
   o document.forms.myform
   o document.getElementById("myform")
   o document.body.children[0]

    document.body.firstChild
   o document.forms[0]
```

Ja Hownany chill

```
11) Calling setInterval(func, 100) calls func...
 exactly every 100ms.
o approximately every 100ms.
o usually every 100ms, but possibly calls will happen much less often
 12) This code will not output anything?
 document.onclick = function(event) {
   alert(event.type);
 };
 document.body.dispatchEvent(new CustomEvent('click'));
 o you are not allowed to generate built-in events in JavaScript
 o , listener through on-property does not work for event generated from JavaScript
built-in event has to be generated otherwise, constructor CustomEvent should be replaced
    with something
 o when generating event it is not specified that it should bubble
 o OMG, what is it?
 13) Here is the link:
 <a href="http://site.com">Link text</a>
 document has listener:
 document.onclick = function(e) { e.preventDefault(); };
 Will the pass on link happen?

    depends on position of stars at the click moment
```

```
14) How many children will <div> have after the code below?
<div id="div">text</div>
<script>
  div.insertAdjecentHTML('afterBegin', 'Hello');
  div.insertAdjecentHTML('beforeEnd', 'Hello');
</script>
o the error will occur
 15) In which cases for element elem is true elem.firstChild == elem.lastChild?
 o when elem has no children
when elem is the only one descendant

    when elem has one two or more descendants

16) Which events from the list will occur when you press and release the 'space' button?
 Another buttons are not clickable.
 o keydown
 keyup •

    keypress

 o no one will occur
  17) What is the right way to output greeting in 5 seconds?
  o sleep(5); alert("Hello!");
  o şleep(5000); alert("Hello!");
 setTimeout(function() {alert("Hello!");}, 5000);
  o setTimeout(function() {alert("Hello!");}, 5);
```

```
18) How can we get the indent size margin-top of <div>?
   o _div.style.marginTop

✓ div.style["margin-top"] .
   o getComputedStyle(div, "margin").top
   getComputedStyle(div).marginTop
   getComputedStyle(div).margin.top
19) Can the script connect another outer js-files to the page while it is working?
   o yes, but only once
  yes, but only before the page is completely loaded
   o yes, as many files are needed and whenever it needed.
20) There is an element <div id="elem"><input/></div>. It has two handlers:
   elem.addEventListener("click", handler1, false):
   elem.addEventListener("click", handler2, true);
   Which of them will work earlier while clicking <input>?
   o the first
   o the second
   o ,no one
  the standard does not specify the exact sequence
  \frac{1}{2}21) How many children (DOM-elements) has  element in the example below:
   <u1>
     Hello
     World
  3
```

```
22) What would the following lines of code output to the console?
                                       "I'm a function"
function parent() {
  var hoisted = "I'm a variable";
  function hoisted() {
    return "I'm a function";
  }
  return hoisted();
}
console.log(parent());
 23) What will the code print?
                                   function bax() {
yeturn 3;
 function foo() {
   function bar() {
     return 3;
   }
   return bar();
   function bar() {
      return 8;
    }
  }
  console.log(foo());
```

```
24) What will the following code output to the console:
    var a = 1;
    function b() {
     a = 10;
     return;
     function a() {}
   }
   b();
   console.log(a);
  25) What will the code print?
  alert(foo());
  function foo() {
                                            ELLOX
    var bar = function() {
      return 3;
    };
    return bar();
   var bar = function() {
     return 8;
   };
 }
 26) Consider the code snippet below. What will the console output be?
var myVar = 'foo';
                                                     emdefind
(function() {
  console.log('Original value was: ' + myVar);
  var myVar = 'bar';
  console.log('New value is: ' + myVar);
                                                 bar
})();
```

```
27) What will the code below output to the console?
 var myObject = {
   foo: "bar",
   func: function() {
     var self = this;
     console.log("outer func: this.foo = " + this.foo);
                                                             bar
     console.log("outer func: self.foo = " + self.foo);
                                                                     EXYOR
     (function() {
        console.log("outer func: this.foo = " + this.foo);
       console.log("outer func: self.foo = " + self.foo);
     }());
   }
 };
 myobject.func();
 28) What will the code below output?
 console.log(0.1 + 0.2);
 console.log(0.1 + 0.2 == 0.3); Thue
 29) In what order will the numbers 1-4 be logged to the console when the code below is
 executed?
                                                            => 1342
 (function() {
  console.log(1);
  setTimeout(function(){console.log(2)}, 1000);
  setTimeout(function(){console.log(3)}, 0);
  console.log(4);
})();
30) Assuming d is an "empty" object in scope, say:
var d = \{\};
...what is d array?
['zebra', 'horse'].forEach(function(k) {
  d[k] = undefined:
});
                  d = ['zebsa': undefined,
'horse': undefined)
```

```
31) What will the code below output to the console?
   var arr1 = "john".split(''); /u)
   var arr2 = arr1.reverse();
   var arr3 = "jones".split(''); (s)
   console.log("array 1: length = " + arr1.length + " last = " + arr1.slice(-
   console.log("array 2: length = " + arr2.length + " last = " + arr1.slice(-
                 arry 1: length = 4 lest = n
arry 2: length = 9 lest = n
   1));
                                                              0 5 5 5 5 5
  32) What will the code below output of the following code:
   for (var i = 0; i < 5; i++) {
    setTimeout(function() {console.log(i); } i * 1000);
  }
  33) What would the following lines of code output to the console?
  console.log("0 || 1 = "+(0 || 1)); false
  console.log("1 || 2 = "+(1 || 2)); T_{\gamma}u^{\epsilon}
  console.log("0 && 1 = "+(0 && 1)); f_{\alpha}(se
 console.log("1 && 2 = "+(1 && 2)); T_{YUE}
 34) What will be the output out of the following code?
 var a={},
   b={key: 'b'},
   c={key: 'c'};
a[b]=123;
a[c]=456;
console.log(a[b]); 123
```

```
35) What will be the output out of the following code?
                                                                         ELLON
console.log((function f(n){return (n > 1) ? n * f(n-1) : n})(10));
36) Consider the code snippet below. What will the console output be?
(function(x) {
  return (function(y) {
                              07 1
    console.log(x);
   })(2);
 })(1);
  37) What will the following code output to the console:
  var hero = {
    _name: 'John Doe',
     getSecretIdentity: function (){
       return this._name;
   var stoleSecretIdentity = hero.getSecretIdentity;
     }
    console.log(getSecretIdentity());
    console.log(hero.getSecretIdentity()); John De
    38) What will be the output of this code?
    var x = 21;
                                   undefined
    var girl = function () {
       console.log(x);
       var x = 20;
     };
     girl();
```

# 39) What will the code print?

```
for (let i=0; i<5; i++) {
   setTimeout(function() { console.log(i); }, i* 1000);
}</pre>
```

## 40) What do the following lines output?

console.
$$log(1 < 2 < 3)$$
; True console. $log(3 > 2 > 1)$ ; The full

#### 41) Imagine you have this code:

var a = 
$$[1, 2, 3];$$

- a) Will this result in a crash? NO a[10] = 99;
- b) What will this output? undefined console.log(a[6]);

### 42) What would following code return?

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```
=> [1,0,1,0,1,0]
43) What values resulting array will consist of?
[1,2,3,4,5,6].filter((v) => !!v % 2);
                                      =) (noes into intinite exception or by looks heads
44) What outcobe of the following code?
let arr = [];
while (arr.length < 5) {
     if (arr.length % 2) {
         arr.push(arr.length * 2);
     } else {
         arr.shift(arr.length);
     }
 }
 45) What will be outputted to console by the following code?
 const input = [6,3,2,5,1];
 console.log(parseInt(input.reduce(function (mem, val, ind) {return mem[val] =
 ind;}, [])));
 46) What values resulting array will consist of?
 Array.prototype.map.call('Ericsson Project', (v, i) => i).filter((i, v) => v
 % 2);
  47) What will be outputted to console by the following code?
  var arr = [];
  while (arr.length < 10) {
      if (arr.length % 2) {
          arr.push(arr.length);
      } else {
          arr.unshift(arr.length);
                                    [8, 6, 4, 2, 0, 1, 3, 5, 7, 9]
      }
  }
  console.log(arr);
```

```
48) What will be outputted to console by the following code?
     const res = [3,4,7,2,1].reduce(function (mem, val, ind) {return (mem[val] =
     ind, mem);}, []);
     console.log(parseInt(res));
     49) What values resulting array will consist of?
     Array.prototype.map.call('Ericsson Project', (v, i) \Rightarrow i).filter((i, v, a) \Rightarrow i)
     (a.length - v) % 2);
    50) What result output of the following code?
    'Javascript'.split('a').map(function (v) {
        if (v.length <= 1) {</pre>
            return v + 'a';
   }).join("); => Javascript
  51) What values resulting array will consist of?
  [18, 3, 15, 4, 3, -3, 1, 0, -5, 8, 13].sort(function (a1, a2) {
      return (Math.abs(a1) < Math.abs(a2)) ? 1 : (a1 === a2 ? 0 : -1);
  });
                       => [0, 1, 3, 3, -3, 4, -5, 8, 13, 15, 18]
 52) What will be outputted to console by the following code?
 const arr = [13, 8, 2, 11, 5, 1, 9, 6, 1, 1],
     init = Array([5]),
     result = arr.reduce(function (mem, val, ind) {
         mem[val] = ind;
        return mem;
    }, init);
console.log(parseInt(result));
```

```
What values resulting array will consist of?
 Array.prototype.map.call('Ericsson Project', (v, i, a) => a.length -
 i).filter((i, v) => v % 2);
54) What values resulting array will consist of?
[[0,0], [0,1], [1,0], [1,1]].map(function(d,i,grid){
    const side = Math.sqrt(grid.length);
    return [Math.abs(i % side - side+1), Math.floor(i/side)];
});
              = \sum_{[-3,0],[-3,0],[-2,0],[-2,0]}
55) What will be outputted to console by the following code?
const red = [2, 5, 6, 1, 4, 1]
    .reduce(function (mem, val, ind) {
        return (mem[val] = ind, mem);
    }, Array(5)),
    res = parseInt(red);
console.log(red);
56) What is arr final state will be?
for (let arr = []; arr.length < 10;) {</pre>
     if (arr.length % 2) {
         arr[arr.length] = arr.length;
     } else {
         for (var aBI = arr.length; aBI > 0; aBI--) {
             arr[aBI] = arr[aBI - 1];
         arr[0] = arr.length;
     }
                   =>[0,0,0,0,0,1,3,5,7,9]
}
```

# **Answers**

```
1. (1 point) object
 2. (1 point) there will be an error
 3. (1 point) 2
 4. (1 point) undefined
 5. (1 point) there will be an error
 6. (1 point) element context is completely visible, has no scroll
(1 point) elem.offsetWidth
  8. (1 point) elem.textContent = "<hello>"
9. (1 point) event.preventDefault() and return false
  10. (1 point) document.forms.myform, document.body.children[0],
     document.forms[0], document.body.firstChild
  11. (1 point) usually every 100ms, but possibly calls will happen much less often
  12. (1 point) built-in event has to be generated otherwise, constructor CustomEvent should
     be replaced with something
  13. (1 point) no
  14. (1 point) 2
  15. (1 point) when elem has no children and when elem is the only one descendant
  16. (1 point) keydown, keyup, keypress
  17.(1 point) setTimeout(function() {alert("Hello!");}, 5000);
  18. (1 point) getComputedStyle(div).marginTop
  19. (3 points) yes, as many files are needed and whenever it needed
  20. (1 point) the second
 21. (2 points) 2
\sqrt{22}. (3 points) TypeError: hoisted is not a function
1×23. (2 points) 8
24. (3 points) 1
26. (2 points) 'Original value was: undefined', 'new value is: bar'
 27. (2 points)
     outer func: this.foo = bar
     outer func: self.foo = bar
     outer func: this.foo = undefined
     outer func: self.foo = bar
  28. (3 points)
  V.0.30000000000000004
     false
  29. (2 points)
```

```
න්0. (2 points) {zebra: undefined, horse: undefined}
31. (4 points)
     "array 1: length=5 last=j,o,n,e,s"
     "array 2: length=5 last=j,o,n,e,s"
  /32. (2 points) 5 5 5 5 5 5
  33. (2 points)
  1 | | 2 = 1
     0 \&\& 1 = 0
     1 \&\& 2 = 2
 \sqrt{3}4. (5 points) 456
 √35. (2 points) 3,628,800
  /36, (2 points) 1
   37. (3 points)
      undefined
      John Doe
   38. (3 points) undefined
 439. (2 points) 0 1 2 3 4
   40. (2 points)
      true
      false
   41. (4 points)
      a) It will not crash
      b) undefined
42. (4 points) string
√43. (5 points) [1,2,3,4,5,6]
// 44. (4 points) infinite loop
 √45. (4 points) 4
47. (5 points) [8, 6, 4, 2, 0, 1, 3, 5, 7, 9]
51. (5 points) [18, 15, 13, 8, -5, 4, 3, 3, -3, 1, 0]
√53. (5 points) [15, 13, 11, 9, 7, 5, 3, 1]
√55. (6 points) [empty, 5, 0, empty, 4, 1, 2]
56. (7 points) [7, 5, 3, 0, 1, 3, 5, 7, 9]
```