

10X - Midterm

Total points 49/52 ?

The respondent's email (**nkyx1987@gmail.com**) was recorded on submission of this form.

პირადი ინფორმაცია

0 of 0 points

პირადი ნომერი *

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სახელი, გვარი *

ნიკა ბერიძე

Core JS foundations

3 of 4 points



✓ What does `console.log()` do? * 1/1

- ☐ A) Executes a loop
- ☒ B) Logs messages to the browser's console ✓
- ☐ C) Styles elements on the page
- ☐ D) Reads user input

✓ What is JavaScript? * 1/1

- ☐ A) A markup language
- ☒ B) A programming language ✓
- ☐ C) A style-sheet language
- ☐ D) A database query language

✗ Which description best fits JavaScript's typing?

*0/1

- ☐ A) Statically typed
- ☐ B) Dynamically and weakly typed
- ☐ C) Strongly typed
- ☒ D) Compiled language ✗

Correct answer

- ☒ B) Dynamically and weakly typed

✓ Where can JavaScript run? *

1/1

- ☐ A) Only in the browser
- ☐ B) Only on the server
- ☒ C) Both in the browser and on the server ✓
- ☐ D) Only in text editors

Variables & Data Types

5 of 5 points

✓ What is the output of typeof null? * 1/1

- ☐ A) "null"
- ☐ B) "undefined"
- ☒ C) "object" ✓
- ☐ D) "string"

✓ What's the difference between let and const? *1/1

- ☐ A) let is hoisted; const is not
- ☒ B) let can be reassigned; const cannot ✓
- ☐ C) const is block-scoped; let is function-scoped
- ☐ D) They're identical

✓ Which data type is used for text? * 1/1

- ☐ A) Number
- ☐ B) Boolean
- ☒ C) String ✓
- ☐ D) Object

✓ What are the possible Boolean values?

*1/1

- ☐ A) "yes" and "no"
- ☐ B) Mtyvan and Martal
- ☐ C) 1 and 0
- ☒ D) true and false ✓
- ☐ E) Cheshmarit and Mcdar
- ☐ F) null and undefined

✓ What is the result of "5" + 3? *

1/1

- ☐ A) 8
- ☐ B) Fiftyeight
- ☐ C) Eight
- ☐ C) NaN
- ☐ D) undefined
- ☐ F) null and undefined
- ☒ G) "53" ✓
- ☐ H) 1 and 0

✓ What does `x += 5` do? *

1/1

- ☐ A) Sets x to 5
- ☒ B) Adds 5 to x and assigns the result to x ✓
- ☐ C) Increments x by 1 five times
- ☐ D) Throws an error

✓ What is `2 + 3 * "4"` in JS? *

1/1

- ☐ A) "14"
- ☐ B) 20
- ☐ C) 24
- ☐ D) 10
- ☒ E) 14 ✓
- ☐ F) "20"

✓ Which operator has higher precedence (priority)?

*1/1

☐ A) +

☒ B) *



☐ C) ==

☐ D) &&

✓ What is the result of !(true && false)?

*1/1

☒ A) true



☐ B) false

☐ C) undefined

☐ D) NaN

✓ What is 5 == "5" and 5 === "5"? *

1/1

☐ A) true, true

☒ B) true, false



☐ C) false, true

☐ D) false, false

✓ Which of these correctly checks if age is between 18 and 30 inclusive? *1/1

- ☒ A) if (age >= 18 && age <= 30) {} ✓
- ☐ B) if (18 <= age <= 30) {}
- ☐ C) if (18 < age < 30) {}
- ☐ D) if (age > 18 || age < 30) {}

✓ Evaluate this condition: * 1/1

```
24
25   let a = true, b = false;
26   if (a && !b || b && !a) {
27       console.log("X");
28   } else {
29       console.log("Y");
30   }
31
```

- ☒ A) X ✓
- ☐ B) Y
- ☐ C) No output
- ☐ D) Error

✓ Which is correct if syntax? *

1/1

- ☐ A) if x > 5 {}
- ☒ B) if (x > 5) {} ✓
- ☐ C) if x > 5 then {}
- ☐ D) if [x > 5] {}

✓ What will this output? *

1/1

```
1  let x = 2;  
2  switch(x) {  
3      case 1: console.log("One"); break;  
4      case 2: console.log("Two"); break;  
5      default: console.log("Other");  
6  }  
7
```

- ☐ A) One
- ☒ B) Two ✓
- ☐ C) Other
- ☐ D) Error

✓ What does let a = (true) ? 1 : 2; assign to a? *1/1

- ☐ A) 0
- ☒ B) 1 ✓
- ☐ C) 2
- ☐ D) undefined

✓ What does this print? * 1/1

```
10 let x = 0;
11 if (x || x === 0) {
12   console.log("pass");
13 } else {
14   console.log("fail");
15 }
```

- ☒ A) pass ✓
- ☐ B) fail
- ☐ C) Nothing (no output)
- ☐ D) Error

✓ What does this print? *

1/1

```
17 let a = "";  
18 if (a) {  
19   console.log("Yes");  
20 } else {  
21   console.log("No");  
22 }  
23
```

- ☐ A) Yes
- ☒ B) No ✓
- ☐ C) No output
- ☐ D) Error

Functions & Scope

8 of 10 points

✓ Which is an example of a callback? * 1/1

- ☒ A) setTimeout(() => {}, 1000) ✓
- ☐ B) console.log("Hi")
- ☐ C) let a = 5;
- ☐ D) function x() {}

✗ Which are hoisted? *

0/1

- ☒ A) Function declarations ✓
- ☐ B) Function expressions
- ☐ C) let and const declarations
- ☐ D) Arrow functions
- ☐ E) All

Correct answer

- ☒ A) Function declarations
- ☒ C) let and const declarations

✓ How do you declare a named function?

*1/1

- ☐ A) let foo => {}
- ☒ B) function foo() {} ✓
- ☐ C) foo => {}
- ☐ D) def foo() {}

✓ What will this snippet do? *

1/1

```
46  
47 const say = function() { console.log("Hello"); }  
48 say();  
49
```

- ☐ A) Error
- ☐ B) Nothing
- ☒ C) Hello ✓
- ☐ D) function

✓ What does this code output? *

1/1

```
37 function outer() {  
38   let count = 0;  
39   return function() {  
40     count++;  
41     return count;  
42   };  
43 }  
44 const c = outer();  
45 console.log(c(), c());  
46
```

- ☐ A) 1 1
- ☐ B) 0 1
- ☒ C) 1 2 ✓
- ☐ D) 2 2

✓ Which is a higher-order function? * 1/1

☐ A) Math.max()

☒ B) arr.map(fn) ✓

☐ C) 5 + 2

☐ D) const a = 1;

✓ What's the difference between var and let? *1/1

☐ A) var is block-scoped; let is function-scoped

☒ B) var is function-scoped; let is block-scoped ✓

☐ C) They're identical

☐ D) let is hoisted; var is not

✓ What is returned if a function has no ^{*}1/1 return?

- ☐ A) null
- ☐ B) 0
- ☒ C) undefined ✓
- ☐ D) false
- ☐ E) ააფგერი

✓ Which is valid arrow function syntax? ^{*} 1/1

- ☐ A) const f = function=>{}
- ☒ B) const f = () => {} ✓
- ☐ C) function => {}
- ☐ D) () => function {}

✖ What does this log? *

0/1

```
31  
32 function greet(name) {  
33   return "Hi " + name;  
34 }  
35 console.log(greet("Ana"));  
36
```

☒ A) undefined



☐ B) Hi Ana

☐ C) greet Ana

☐ D) Error

Correct answer

☒ B) Hi Ana

Loops

7 of 7 points

✓ What does this log? *

1/1

```
49
50   for (let i = 0; i < 3; i++) {
51     |   console.log(i);
52   }
53
```

- ☐ A) 1 2 3
- ☒ B) 0 1 2 ✓
- ☐ C) 0 1 2 3
- ☐ D) Error

✓ What does this log? *

1/1

```
49
50   for (let i = 0; i < 3; i++) {
51     |   console.log(i);
52   }
53
```

- ☐ A) 1 2 3
- ☒ B) 0 1 2 ✓
- ☐ C) 0 1 2 3
- ☐ D) Error

✓ What does break do? *

1/1

- ☐ A) Skips to next iteration
- ☒ B) Stops the loop entirely ✓
- ☐ C) Restarts the loop
- ☐ D) Throws an error

✓ What does this log? *

1/1

```
53  
54   let i = 3;  
55   while (i > 0) {  
56     | console.log(i--);  
57   }  
58  
59
```

- ☒ A) 3 2 1 ✓
- ☐ B) 1 2 3
- ☐ C) Infinite loop
- ☐ D) Error

✓ What does continue do? *

1/1

- ☐ A) Stops loop
- ☒ B) Skips to the next iteration ✓
- ☐ C) Exits program
- ☐ D) Resets counter

✓ Which loop iterates object keys? *

1/1

- ☐ A) for
- ☒ B) for...in ✓
- ☐ C) for...of
- ☐ D) while

✓ Which always runs at least once? *

1/1

- ☐ A) for
- ☐ B) while
- ☒ C) do...while ✓
- ☐ D) for...of

✓ What is returned by `Object.keys(obj)`? *1/1

- ☐ A) An array of values
- ☒ B) An array of keys ✓
- ☐ C) An object of key-value pairs
- ☐ D) A string

✓ What does this print? * 1/1

```
59   const a={  
60     x:1  
61   };  
62  
63   const b=a;  
64   b.x=2;  
65  
66   console.log(a.x);  
67
```

- ☐ A) 1
- ☐ B) Error
- ☐ C) undefined
- ☒ D) 2 ✓

✓ Which accesses the name property? * 1/1

☒ A) [obj.name](#) ✓

☐ B) obj->name

☐ C) obj[name]

☐ D) obj{"name"}

✓ What does delete obj.key do? * 1/1

☐ A) Sets property to null

☒ B) Removes the property ✓

☐ C) Throws an error

☐ D) Renames the key

✓ What does this refer to in a method? * 1/1

☐ A) Global object

☒ B) The object calling the method ✓

☐ C) Function definition

☐ D) Window only

✓ How do you create an object? * 1/1

☐ A) let o = [];

☒ B) let o = {};



☐ C) let o = ();

☐ D) let o = <>;

✓ What's the result of `Object.entries({a:1})`? *1/1

☐ A) [1]

☐ B) ["a"]

☒ C) [["a",1]]



☐ D) {a:1}

Arrays & Array Methods

5 of 5 points

✓ How do you create an empty array? * 1/1

- ☒ A) [] ✓
- ☐ B) {}
- ☐ C) ()
- ☐ D) <>

✓ What does arr.map(fn) return? * 1/1

- ☐ A) Single value
- ☒ B) New array of results ✓
- ☐ C) Modifies original array
- ☐ D) Undefined

✓ Which extracts a subarray? * 1/1

- ☐ A) splice()
- ☒ B) slice() ✓
- ☐ C) merge()
- ☐ D) split()

✓ Which removes the last element? * 1/1

- ☒ A) pop() ✓
- ☐ B) push()
- ☐ C) shift()
- ☐ D) unshift()

✓ Which filters even numbers from [1,2,3,4]? *1/1

- ☒ A) [1,2,3,4].filter(n => n % 2 === 0) ✓
- ☐ B) [1,2,3,4].map(n => n % 2 === 0)
- ☐ C) [1,2,3,4].reduce(...)
- ☐ D) [1,2,3,4].forEach(...)

DOM manipulation

2 of 2 points

✓ Which creates a new <div>? * 1/1

- ☐ A) document.create("div")
- ☐ B) document.makeElement("div")
- ☒ C) document.createElement("div") ✓
- ☐ D) [document.new](#)("div")

✓ How do you select an element by ID? *1/1

- ☐ A) document.query("#id")
- ☒ B) document.getElementById("id") ✓
- ☐ C) document.find("id")
- ☐ D) [document.id](#)("id")

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