

HOF and Functional Programming quiz

25 out of 25 correct

1. What is a higher-order function in JavaScript?

- ☐ A function that returns a function
- ☒ A function that takes a function as an argument
- ☐ A function that operates on a higher level of abstraction than other functions
- ☐ A function that is used for mathematical calculations

2. Which of the following is an example of a higher-order function in JavaScript?

- ☐ forEach()
- ☐ reduce()
- ☒ both a and b
- ☐ none of the above

3. What is the purpose of the map() function in JavaScript?

- ☒ It creates a new array by performing a transformation on each element of an existing array
- ☐ It filters an array based on a given condition
- ☐ It returns the first element in an array that satisfies a given condition



- ☐ It reduces an array to a single value

4. Which of the following is an example of a callback function in JavaScript?

- ☐ setTimeout()
- ☐ setInterval()
- ☒ both a and b
- ☐ none of the above

5. What is the purpose of the filter() function in JavaScript?

- ☐ It creates a new array by performing a transformation on each element of an existing array
- ☒ It filters an array based on a given condition
- ☐ It returns the first element in an array that satisfies a given condition
- ☐ It reduces an array to a single value

6. What is the purpose of the setInterval() function in JavaScript?

- ☐ It executes a function after a specified amount of time has elapsed
- ☒ It executes a function repeatedly at a specified interval
- ☐ It sets the current time on a clock display
- ☐ It sets the timeout period for a function to execute

7. What is the purpose of the setTimeout() function in JavaScript?

- ☒ It executes a function after a specified amount of time has elapsed
- ☐ It executes a function repeatedly at a specified interval

- ☐ It sets the current time on a clock display
- ☐ It sets the timeout period for a function to execute

8. How is the time interval specified for `setInterval()` and `setTimeout()` functions?

- ☐ In seconds
- ☐ In minutes
- ☒ In milliseconds
- ☐ In hours

9. What is the difference between `setInterval()` and `setTimeout()` functions?

- ☒ `setInterval()` executes a function repeatedly at a specified interval, while `setTimeout()` executes a function only once after a specified amount of time has elapsed.
- ☐ `setTimeout()` executes a function repeatedly at a specified interval, while `setInterval()` executes a function only once after a specified amount of time has elapsed.
- ☐ `setInterval()` and `setTimeout()` are essentially the same function with different names.
- ☐ `setInterval()` and `setTimeout()` are not related to each other.

10. Which of the following is an example of setting a timeout in JavaScript?

- ☐ `setInterval(myFunction, 1000);`
- ☒ `setTimeout(myFunction, 500);`
- ☐ `setInterval(myFunction, "1s");`
- ☐ `setTimeout(myFunction, "0.5s");`

11. What is the purpose of the `every()` function in JavaScript?

- ☒ It checks if every element in an array satisfies a given condition
- ☐ It finds the first element in an array that satisfies a given condition
- ☐ It sorts the elements of an array in ascending order
- ☐ It reduces an array to a single value

12. What is the purpose of the find() function in JavaScript?

- ☐ It checks if every element in an array satisfies a given condition
- ☒ It finds the first element in an array that satisfies a given condition
- ☐ It sorts the elements of an array in ascending order
- ☐ It reduces an array to a single value

13. What is the purpose of the sort() function in JavaScript?

- ☐ It checks if every element in an array satisfies a given condition
- ☐ It finds the first element in an array that satisfies a given condition
- ☒ It sorts the elements of an array in ascending or descending order
- ☐ It reduces an array to a single value

14. What is the purpose of the reduce() function in JavaScript?

- ☐ It checks if every element in an array satisfies a given condition
- ☐ It finds the first element in an array that satisfies a given condition
- ☐ It sorts the elements of an array in ascending or descending order
- ☒ It reduces an array to a single value by repeatedly applying a function to each element

15. What is the return value of reduce() function?

- ☐ An array
- ☒ A single value
- ☐ A boolean value
- ☐ Another function

16. What is the purpose of the `clearInterval()` function in JavaScript?

- ☐ It clears the timeout period for a function to execute
- ☒ It clears the interval for a function to execute repeatedly
- ☐ It sets the timeout period for a function to execute
- ☐ It sets the interval for a function to execute repeatedly

17. What is the purpose of the `clearTimeout()` function in JavaScript?

- ☒ It clears the timeout period for a function to execute
- ☐ It clears the interval for a function to execute repeatedly
- ☐ It sets the timeout period for a function to execute
- ☐ It sets the interval for a function to execute repeatedly

18. Which of the following is the correct syntax for `clearInterval()` function?

- ☒ `clearInterval(intervalID);`
- ☐ `clearInterval(timeoutID);`
- ☐ `clearTimeout(intervalID);`
- ☐ `clearTimeout(timeoutID);`

19. Which of the following is the correct syntax for `clearTimeout()` function?

- ☐ `clearInterval(intervalID);`
- ☐ `clearInterval(timeoutID);`
- ☐ `clearTimeout(intervalID);`
- ☒ `clearTimeout(timeoutID);`

20. When should `clearInterval()` or `clearTimeout()` functions be used in JavaScript?

- ☒ To prevent a function from executing repeatedly at a specified interval or after a specified timeout
- ☐ To ensure that a function executes repeatedly at a specified interval or after a specified timeout
- ☐ To execute a function repeatedly at a specified interval or after a specified timeout
- ☐ None of the above

21. What does the term "regex" stand for?

- ☒ Regular expression
- ☐ Recursive expression
- ☐ Referring expression
- ☐ Redundant expression

22. What is the purpose of regular expressions in JavaScript?

- ☒ To manipulate strings and search for patterns within them
- ☐ To create new functions and objects
- ☐ To interact with the DOM
- ☐ To control the flow of the program

23. Which of the following characters represents the beginning of a regular expression in JavaScript?

☒ `/`

☐ `.`

☐ `:`

☐ `;`

24. Which of the following characters is used in a regular expression to match any single character?

☒ `.`

☐ `*`

☐ `+`

☐ `?`

25. Which of the following is a valid regular expression in JavaScript to match a string that starts with "hello" and ends with "world"?

☐ `/hello+world/`

☐ `/hello.*world/`

☒ `/^hello.*world$/`

☐ `/^hello+world$/`

Submit