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Full Name: ishvinder singh

Email: ishvinder.singh2@wipro.com

Test Name: Front-End Developer (React) Ishvinder Singh

Taken On: 7 Feb 2023 15:05:16 IST

Time Taken: 21 min 55 sec/ 60 min

Work Experience: < 1 years

Contact Number: +919528622555

Resume: https://hackerrank-resumes.s3.amazonaws.com/5618018/4G7X6irMflZe_pbDaRTn9gtAPJln2NwPWJokjd9FWm4wRNA2LZbWxqcbfqoyWtkrw/Ishvinder_Resume.pdf

Linkedin: <https://www.linkedin.com/in/ishvinder-singh-451101154/>

Invited by: Kavitha

Invited on: 6 Feb 2023 21:51:18 IST

Skills Score:

HTML/CSS/JS

40/50

JavaScript (Basic)

30/50

Problem Solving (Basic)

40/50

React (Basic)

0/10

Tags Score:

Arrays

40/50

CSS

40/50

Easy

110/160

Functions

30/50

Interviewer Guidelines

40/50

JavaScript

70/100

Loops

40/50

Object Literal Manipulation

30/50

React

0/10

React Component Lifecycle

0/5

Candidate Tags: frontend-react,frontend-test

68.8%

110/160

scored in Front-End Developer (React) Ishvinder Singh in 21 min 55 sec on 7 Feb 2023 15:05:16 IST


Recruiter/Team Comments:

Used Google for reference. Traces can be seen.
- Kavitha Kumarasamy (7 Feb 2023 17:29:34 UTC)

Plagiarism flagged

	Question Description	Time Taken	Score	Status
Q1	Reverse a list > Coding	59 sec	40/ 50	✓
Q2	JavaScript: Student Record Manipulation > Coding	2 min 28 sec	30/ 50	!
Q3	The Rectangles > Front-end	14 min 52 sec	40/ 50	✓
Q4	Method Search > Multiple Choice	45 sec	0/ 5	✗
Q5	Submit > Multiple Choice	2 min 40 sec	0/ 5	✗

QUESTION 1



Correct Answer

Score 40

Reverse a list > Coding

Arrays

Easy

Interviewer Guidelines

Loops

QUESTION DESCRIPTION

Given an array of integers, reverse the given array in place using an index and loop rather than a built-in function.

Example
`arr = [1, 3, 2, 4, 5]`

Return the array `[5, 4, 2, 3, 1]` which is the reverse of the input array.

Function Description
 Complete the function `reverseArray` in the editor below.

`reverseArray` has the following parameter(s):
 `int arr[n]`: an array of integers

Return
 `int[n]`: the array in reverse order

Constraints

- $1 \leq n \leq 100$
- $0 < arr[i] \leq 100$

▼ Input Format For Custom Testing

The first line contains an integer, n , the number of elements in `arr`.

Each line i of the n subsequent lines (where $0 \leq i < n$) contains an integer, `arr[i]`.

▼ Sample Case 0

Sample Input For Custom Testing

```
5
1
3
2
4
5
```

Sample Output

```
5
```

4
2
3
1

Explanation

The input array is [1, 3, 2, 4, 5], so the reverse of the input array is [5, 4, 2, 3, 1].

▼ Sample Case 1

Sample Input For Custom Testing

4
17
10
21
45

Sample Output

45
21
10
17

Explanation

The input array is [17, 10, 21, 45], so the reverse of the input array is [45, 21, 10, 17].

INTERVIEWER GUIDELINES

▼ Hint 1

Reversing a list means all elements which are at index i will be at index $n - i - 1$, where n = length of the list.

▼ Hint 2

For all i from 0 to $n / 2$, swap $arr[i]$ and $arr[n - i - 1]$.

▼ Solution

Concepts covered: Basic Programming Skills, Loops, Arrays, Problem Solving. The problem tests the candidate's ability to use loops and array handling. It requires the candidate to come up with an algorithm to reverse a list in a constrained time and space complexity.

Optimal Solution:

Reversing a list means all elements which are at index i will be now at index $n - i - 1$, where n = length of the list. For all, i from 0 to $n / 2$, swap $arr[i]$ and $arr[n - i - 1]$.

Time Complexity: $O(N)$

```
def reverseArray(arr):  
    # Write your code here  
    n = len(arr)  
    for i in range(n / 2):  
        arr[i], arr[n - i - 1] = arr[n - i - 1], arr[i]  
  
    return arr
```

Error Handling:

1. We loop through the indices $[0, N/2)$ only.
2. Swapping of the indices i and $N - i - 1$, must be done carefully.

▼ Complexity Analysis

Time Complexity - $O(n)$.

We do linear time operations.

Space Complexity - O(1) - No extra space is required.
We perform all the operations in the array in-place.

CANDIDATE ANSWER

Language used: JavaScript (Node.js)

```
1  /*
2   * Complete the 'reverseArray' function below.
3   *
4   * The function is expected to return an INTEGER_ARRAY.
5   * The function accepts INTEGER_ARRAY arr as parameter.
6   */
7
8  function reverseArray(arr) {
9      // Write your code here
10     return arr.reverse()
11 }
12
13
14
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
TestCase 0	Easy	Sample case	✔ Success	1	0.0612 sec	38.2 KB
TestCase 1	Easy	Sample case	✔ Success	1	0.055 sec	38.2 KB
TestCase 2	Easy	Sample case	✔ Success	8	0.063 sec	38.5 KB
TestCase 3	Easy	Sample case	✔ Success	8	0.0722 sec	38.6 KB
TestCase 4	Easy	Hidden case	✔ Success	8	0.056 sec	38.6 KB
TestCase 5	Easy	Hidden case	✔ Success	8	0.0458 sec	38.2 KB
TestCase 6	Easy	Hidden case	✔ Success	8	0.0941 sec	38.1 KB
TestCase 7	Easy	Hidden case	✔ Success	8	0.0497 sec	38.7 KB

No Comments

QUESTION 2



Needs Review

Score 30

JavaScript: Student Record Manipulation > Coding

Object Literal Manipulation

Easy

JavaScript

Functions

QUESTION DESCRIPTION

In this challenge, the task is to implement a function *manipulateStudentRecord* that:

- takes 4 arguments: an object literal *obj*, a string *operation* that is either "delete" or "edit", a string *prop*, and a string *newValue*.
- returns a value depending on *operation*:
 - If *operation* is 'delete', then it returns a new object literal with the same properties and their values as *obj* has, except that if *obj* has property *prop*, then this property must not be in the returned object literal. In this case, the parameter *newValue* would be undefined.
 - If *operation* is 'edit', then it returns a new object literal with the same properties and their values as *obj* has, except that if *obj* has property *prop*, then this property value must be updated to the *newValue* parameter.

Your implementation of the function will be tested by a provided code stub on several input files. Each input file contains parameters for the function call. The function will be called with those parameters, and the result of its execution will be printed to the standard output by the provided code. The provided code prints the properties of the returned object ordered by their names.

▼ Input Format For Custom Testing

The first line contains an integer, n , denoting the number of properties *obj* has.

Each line i of the n subsequent lines (where $0 \leq i < n$) contains two space-separated values. The first of them is a string denoting the property of *obj*, and the second one is the value of that property.

The last line contains string values for modification for *obj* in the format *{operation} {prop} {newValue}*.

▼ Sample Case 0

Sample Input For Custom Testing

```
3
name John
lastName Bliss
city Florida
edit city Seattle
```

Sample Output

```
city Seattle
lastName Bliss
name John
```

Explanation

In this test, *obj* has 3 properties: *name*, *lastName*, and *city*. The property to edit is *city*, so the returned object literal contains the value 'Seattle' for the property *city*, while the other two properties are the same as in *obj*.

▼ Sample Case 1

Sample Input For Custom Testing

```
3
name John
lastName Bliss
city Florida
delete city
```

Sample Output

```
lastName Bliss
name John
```

Explanation

In this test, *obj* has 3 properties: *name*, *lastName*, and *city*. The property to delete is *city*, so the returned object literal contains properties *name* and *lastName* but does not contain *city* as that has been deleted.

▼ Sample Case 2

Sample Input For Custom Testing

```
3
name John
lastName Bliss
city Florida
edit abc Tor
```

Sample Output

```
city Florida
lastName Bliss
name John
```

Explanation

In this test, *obj* has 3 properties: *name*, *lastName*, and *city*. The property to edit is 'abc', which does not exist, so the returned object literal is the same as the input.

INTERVIEWER GUIDELINES

tester's solution:

```
function manipulateStudentRecord(obj, operation, prop, newValue) {
  if (prop in obj) {
    const { [prop]: oldValue, ...rest } = obj;
    return operation === 'delete' ? rest : { [prop]: newValue, ...rest };
  }
  return obj;
}
```

CANDIDATE ANSWER

Language used: **JavaScript (Node.js)**

```
1 function manipulateStudentRecord(obj, operation, prop, newValue) {
2   // write your code here
3   if(operation === 'delete') {
4     if(obj && obj.hasOwnProperty(prop)){
5       delete obj[prop]
6     }
7     return obj
8   }
9   } else if(operation === 'edit') {
10    if(obj && obj.hasOwnProperty(prop)){
11      obj[prop] = newValue
12      return obj;
13    } else {
14      return obj
15    }
16  }
17 }
18
19
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	✔ Success	1	0.0811 sec	38.6 KB
Testcase 1	Easy	Sample case	✔ Success	1	0.0492 sec	38.4 KB
Testcase 2	Easy	Hidden case	✔ Success	5	0.0735 sec	38.5 KB
Testcase 3	Easy	Hidden case	✔ Success	6	0.0548 sec	38.3 KB
Testcase 4	Easy	Hidden case	✔ Success	6	0.0455 sec	38.4 KB
Testcase 5	Easy	Hidden case	✔ Success	6	0.0578 sec	38.6 KB
Testcase 6	Easy	Hidden case	✔ Success	6	0.0564 sec	38.6 KB
Testcase 7	Easy	Hidden case	✔ Success	6	0.0696 sec	38.5 KB
Testcase 8	Easy	Sample case	✔ Success	1	0.0513 sec	38.1 KB
Testcase 9	Easy	Hidden case	✔ Success	6	0.0706 sec	38.3 KB
Testcase 10	Easy	Hidden case	✔ Success	6	0.0476 sec	38.2 KB

No Comments

QUESTION 3

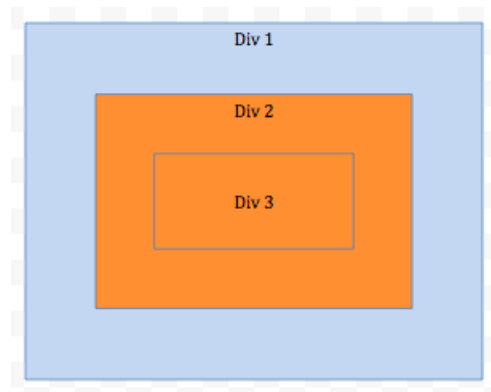


Correct Answer

Score 40

The Rectangles > Front-end JavaScript CSS Easy

QUESTION DESCRIPTION



Make three rectangles as shown in the figure above. Clicking on any rectangle should alert the name of the rectangle.

CANDIDATE ANSWER

Please open the report on HackerRank for Work to view the candidate's submission

<https://www.hackerrank.com/x/tests/1526082/candidates/49974145/report>

No Comments

QUESTION 4



Wrong Answer

Score 0

Method Search > Multiple Choice Easy React React Component Lifecycle

QUESTION DESCRIPTION

Which of the following methods is/are invoked when there is an error during rendering in the React lifecycle?

INTERVIEWER GUIDELINES

The `getDerivedStateFromError()` and `componentDidCatch()` method is invoked if some error occurs during the rendering phase of any lifecycle methods

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☒ `getDerivedStateFromError()`
- ☐ `componentDidCatch()`
- ☒ Both A and B.
- ☐ None of the above

No Comments

QUESTION 5

Wrong Answer

Score 0

Submit > Multiple Choice

Easy

React

QUESTION DESCRIPTION

What element type does this render?

```
function Music() {  
  return <span>Tiesto - Surrounded by Light</span>;  
}  
  
ReactDOM.render(<Music/>, document.getElementById('root'));
```

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

- ☐ div
- ☒ span
- ☐ Component
- ☐ None above

No Comments