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From: Bhubaneswar, Odisha - India

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EK24 React & UI 1	55.33/95	58.24%
Qualified	Score	Overall %

Registration Details

Show

Name

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STPI Bhubaneshwar

Strength Analysis

Strengths 68 - 100%

CSS 100.00% HTML 100.00% Coding Questions 75.55%

Moderate 35 - 67%

JavaScript 44.44%

Weakness 0 - 34%

Data Structures and Algorithms 0.00%

Performance Summary

Coding	45.33/80	56.66%
SKILL (S)	Score	Percentage
Data Structures and Algorithms	0/20	0%
Coding Questions	45.33/60	75.55%

MCQs	10/15	66.67%
SKILL (S)	Score	Percentage
JavaScript	4/9	44.44%
CSS	3/3	100%
HTML	3/3	100%

Section 1: Coding

56.66%	45.33/80	59min(s) 26sec(s)
Percentage	Score	Time taken

Data Structures and Algorithms — 0%

0 easy questions	0/1	0 hard questions
Easy	Medium	Hard

Quick Access: 1

Coding Questions — 75.55%

0 easy questions	3/3	0 hard questions
Easy	Medium	Hard

Quick Access: 2 3 4

Q: 1

Shortest distance Travelled

Problem Statement

Taylor Mason goes for a road trip in his bike during his holiday. His trip route involves the same path every time.

He first heads towards the north from his home then takes a left turn and move for some distance to reach his favourite spot to meet his friends. Then he returns in the same direction.

Your task is to find the shortest distance from his home to the destination given the distance travelled in north and east direction by Taylor.

Input

Two integers ‘m’ and ‘n’, where m represents the distance travelled in north direction and n represents the distance travelled in east direction with asingle space between them

Output

Display the shortest distance from the house to destination

Example:

Input

3 4

Output

5.00

The above mentioned example is a **sample test case** for your understanding. The program will be tested on other secret test cases in the backend. Make sure you click the **SUBMIT** button to save and submit your answer.

Coding | 20 Points | Medium | Language: Javascript

```
var stdin = process.openStdin();
stdin.addListener("data", function(d) {
    // note:  d is an object, and when converted to a string it will
    // end with a linefeed.  so we (rather crudely) account for that
    // with toString() and then trim()

    let dt = d.toString().trim();
        let dtArr = dt.split(' ')
        let north = Number(dtArr[0]);
        let east = Number(dtArr[1]);
        let shortestDist = Math.sqrt(Math.pow(north,2) + Math.pow(east,2));
        console.log(shortestDist);
  });
```

Name	Input	Expected Output	Received Output	Status
Test Case 0	3 4	5.00	5	Failed
Test Case 1	6 8	10.00	10	Failed
Test Case 2	10 10	14.14	14.142135623730951	Failed
Test Case 3	20 20	28.28	28.284271247461902	Failed
Test Case 4	30 15	33.54	33.54101966249684	Failed

Q: 2

Ringroad Problem

Problem Statement

Large cities have a RingRoad around them to help cars avoid entering the city. A car is travelling on a ring road (circular path). There are a few diesel pumps on the path. You will have two pieces of information corresponding to every pump on that road.

(1) The amount of diesel available at that station.

(2) The distance from that diesel pump to the next one.

Consider 1 Litre diesel will fuel the car for 1 Kilometer.

Calculate from which Diesel Station you should start the trip so as to be able to complete one lap around the ring road. The car stops at each diesel pump and the fuel tank of infinite capacity is empty initially.The function **find_starting_pump()** accepts the parameters int **amount_of_diesel_present[] ,**int **distance_to_next_pump[]** and int **no_of_pumps**.Complete the function by returning the index of the staring pump in integer format.

Example 1:

Input :

amount_of _diesel_present=[1,10,3],distance_to_next_pump=[5,3,4],no_of_pumps=3

Output :

2

Explanation:

If we start the Journey at 1st diesel Pump we can fill 1 Litre diesel and travel for 1 KM, however the next pump is 5 KM away from the first stop.

If we start the Journey at 2nd diesel Pump we can fill 10 Litres diesel and travel for 10 KM, the next pump is 3 KM away from it, and there is 7 Litre diesel left in the car. In the next pump we can fill 3 Litres diesel making the total fuel in the tank amount to 10 Litres, the next stop is 4 KM away and there is enough fuel to cover the path till the next pump. On reaching the next pump there is 6 litres of diesel available and 1 more Litre can be filled so the total fuel in the tank is 7 Litres and the next pump is only 5 KM away. On reaching the next pump we finish one complete lap of the ring road.

Therefore, we should start the trip from pump 2

Example 2:

Input :

amount_of _diesel_present=[1,2,13,4,1],distance_to_next_pump=[3,5,3,3,2],no_of_pumps=5

Output :

3

The above mentioned example is a **sample test case** for your understanding. The program will be tested on other secret test cases in the backend. Make sure you click the **SUBMIT** button to save and submit your answer.

Coding | 20 Points | Medium | Language: Javascript

```
function find_starting_pump(amount_of_diesel_present,distance_to_next_pump,no_of_pumps){
    let pump_index=1;
    //Write your code here
    //where amount_of_diesel_present[] ,amount_of_diesel_present[] contains the input array and no_of_pumps array
    //result should contain the output of the program
    let totalFuel = 0;
```

```
    let totalDist = 0;
    for(let i=0; i<amount_of_diesel_present.length; i++){
        totalFuel += amount_of_diesel_present[i];
    }
    for(let i=0; i<distance_to_next_pump.length; i++){
        totalDist += distance_to_next_pump[i];
    }
    if(totalFuel < totalDist){
        return -1;
    }
    let maxFuel = amount_of_diesel_present.indexOf(Math.max(...amount_of_diesel_present));
    pump_index = maxFuel + 1;
    return pump_index;
};
```

Name	Input	Expected Output	Received Output	Status
Test Case 0	3 [1,10,3] [5,3,4]	2	2	Passed
Test Case 1	4 [2,6,2,2] [4,1,6,1]	2	2	Passed
Test Case 2	5 [1,2,9,10,5] [4,6,4,5,5]	3	4	Failed
Test Case 3	6 [1,2,3,4,5,20] [4,5,6,4,2,1]	4	6	Failed
Test Case 4	10 [1,2,3,4,5,25,10,12,1,2] [10,7,10,8,9,2,3,10,5,1]	6	6	Passed

Q: 3

Maria's AI

Problem Statement

Maria Hernandez is a Security analyst in BoltWire located at London. The primary work of Maria is to analyze the video footages and identify the anomalies in them. In order to improve the efficiency of the process, she wants to implement an automated module that allows her to classify the images based on the colour range as Green, Red or Blue based on the pixel values. Given the pixel values in an image, display the channel that accommodates maximum pixels in it as the output.The function **get_channel()** accepts the parameters int **pixel_values[]**,int **img_height** and int **img_width**.Complete the function by returning the channel name that has maximum pixels in its range.

Note: The pixels in the range 0 to 80 are classified as Red, 81 to 175 are Green and 176 to 255 are Blue pixels. If two channels have same count of pixels, display the one with maximum pixel intensity value.

Example 1

Input

pixel_values=[120,110,110,160,170,183,195,196,198],img_height=3,img_width=3

Output:

Green

Example 2

Input

pixel_values=
[69,68,69,70,75,86,88,89,90,91,92,95,97,100,178,180,183,186,190,193,193,196,197,200,206],img_heig
ht=5,img_width=5

Output:

Blue

The above mentioned example is a **sample test case** for your understanding. The program will be tested on other secret test cases in the backend. Make sure you click the **SUBMIT** button to save and submit your answer.

Coding | 20 Points | Medium | Language: Javascript

```javascript
function get_channel(pixel_values,img_height,img_width){
    let channel_name="null";
    //Write your code here
    //where pixel_values[],img_height and img_width contains the input array and sizeofarray shows the numbe
array
    //channel_name should contain the output of the program
//  let red = 0;
//  let green = 0;
//  let blue = 0;
    let arr = [0,0,0];
    for(let i=0; i<pixel_values.length; i++){
        if(pixel_values[i] >= 0 && pixel_values[i] <= 80){
            arr[0]++;
        }
        else if(pixel_values[i] >= 81 && pixel_values[i] <= 175){
            arr[1]++;
        }
        else{
            arr[2]++;
        }
    }
//  console.log(arr);
    let maxVal = arr.indexOf(Math.max(...arr));

    if(maxVal == 0){
```

Name	Input	Expected Output	Received Output	Status
Test Case 0	5 5 [69,68,69,70,75,86,88,89,90,91,92,95,97,100,178,180,183,186,190,193,193,196,197,200,206]	Blue	Blue	Passed
Test Case 1	3 3 [120,110,110,160,170,183,195,196,198]	Green	Green	Passed
Test Case 2	3 3 [110,100,90,85,80,85,200,205,210]	Green	Green	Passed
Test Case 3	2 2 [75,77,78,81]	Red	Red	Passed
Test Case 4	4 4 [91,93,94,93,91,95,192,195,198,210,220,208,217,221,226,224]	Blue	Blue	Passed

Q: 4

Beer Bottles

Problem Statement

A beer manufacturing company sells beer in bottles of different sizes - 1 Gallon, 5 Gallons, 7 Gallons and 10 Gallons. Given a supply order of N Gallons, the manufacturer wants to fulfil the demand with minimum number of bottles.

The function **bottles_required()** accepts 1 parameter: an int **gallons_of_beer**.

Complete the function bottles_required() by returning the minimum number of bottles required in integer format.

Example 1

Input

gallons_of_beer=17

Output

2

Explanation : 17 Gallons can be fulfilled using 1 (10 Gallon) and 1(7 Gallon) bottle. Hence, minimum number of bottles is 2

Example 2

Input

gallons_of_beer=13

Output

3

Explanation : 13 Gallons can be fulfilled using 1 (7 Gallon) + 1 (5 Gallon) Bottle + 1(1 Gallon) bottle. Hence, minimum number of bottles is 3

The example provided above is a **sample test case** meant for your understanding. Your code will be scored on multiple secret test cases in the backend. Make sure you click the **SUBMIT** button to save and submit your answer.

Coding | 20 Points | Medium | Language: Javascript

```javascript
function bottles_required(gallons_of_beer){
    let no_of_bottles=0;
  //Write your code here without removing the exisitng code
    //the variable gallons_of_beer contains the input integer
    //the variable no_of_bottles should contain the output
    if(gallons_of_beer >= 10){
        let required = Math.floor(gallons_of_beer / 10);
        no_of_bottles += required;
        gallons_of_beer -= (required * 10);
    }
    if(gallons_of_beer >= 7){
        let required = Math.floor(gallons_of_beer / 7);
        no_of_bottles += required;
        gallons_of_beer -= (required * 7);
    }
    if(gallons_of_beer >= 5){
        let required = Math.floor(gallons_of_beer / 5);
        no_of_bottles += required;
        gallons_of_beer -= (required * 5);
    }
    no_of_bottles += gallons_of_beer;
  return no_of_bottles;
};
```

Name	Input	Expected Output	Received Output	Status
Test Case 0	17	2	2	Passed
Test Case 1	12	2	3	Failed
Test Case 2	13	3	4	Failed
Test Case 3	20	2	2	Passed
Test Case 4	10	1	1	Passed
Test Case 5	25	3	3	Passed

Section 2: MCQs

66.67% Percentage

10/15 Score

10min(s) 24sec(s) Time taken

JavaScript 44.44%

2/3 Easy

1/3 Medium

0 hard questions Hard

1 2 3 5 7 9

Quick Access

CSS 100%

1/1 Easy

1/1 Medium

0 hard questions Hard

6 10

Quick Access

HTML 100%

1/1 Easy

1/1 Medium

0 hard questions Hard

4 8

Quick Access

Q: 1

Suppose you're building a weather app that needs to fetch initial data from an API before rendering the UI. Which of the following approaches effectively utilizes top-level await to achieve this?

Multiple Choice Question | 2 Points | Medium

Answer by candidate:

Wrap the entire app's main module code in an async IIFE (Immediately Invoked Function Expression) and use `await` within it.

Answer Status:

Not Correct

0/2

Q: 2

What will be logged to the console when `obj.b()` and `obj.c()` are called?

```
const obj = {
  a: 1,
  b: () => console.log(this.a),
  c: function() {
    console.log(this.a);
  }
};

obj.b();
obj.c();
```

Multiple Choice Question | 2 Points | Medium

Answer by candidate:

1

1

Answer Status:

Not Correct

0/2

Q: 3

Find the output of the JavaScript code.

```
function hello(message) {
   return function(name){
        return message + ' ' + name;
   }
}
let Hi = hello('Hi');
let Hello = hello('Hello');
console.log(Hi('John'));
console.log(Hello('John'));
```

Multiple Choice Question | 1 Point | Easy

Answer by candidate:

Hi John

Hello John

Answer Status:

Correct

1/1

Q: 4

What does `border="1"` attribute in the `<table>` tag define?

```
<!DOCTYPE html>
<html>
<body>
  <table border="1">
    <tr>
```

Multiple Choice Question | 2 Points | Medium

Answer by candidate:

It adds a border around the entire table.

Answer Status:

Correct

2 /2

Q: 5

Which type of JavaScript property will it execute?

```
async function fun() {
    console.log('Funny');
    return Promise.resolve(1);
}
fun();
```

Multiple Choice Question | 1 Point | Easy

Answer by candidate:

Promise function

Answer Status:

Not Correct

0 /1

Q: 6

Which of the following is the correct syntax used for setting a grid container and setting the row-gap and column gap to 60px and 120px?

Multiple Choice Question | 2 Points | Medium

Answer by candidate:

```
.grid-container {
  display: grid;
  gap: 60px 120px;
}
```

Answer Status:

Correct

2 /2

Q: 7

You are developing a utility library in JavaScript, and you want to import the entire module "utils" to access all its functions. Which static import statement is the correct syntax for achieving this?

Multiple Choice Question | 1 Point | Easy

Answer by candidate:

```
import * as utilities from "./utils";
```

Answer Status:

Correct

1 /1

Q: 8

What does `target="_blank"` do in this HTML code?

```
<!DOCTYPE html>
<html>
<body>
  <a href="https://www.example.com" target="_blank">Example Link</a>
</body>
</html>
```

Multiple Choice Question | 1 Point | Easy

Answer by candidate:

It opens the link in a new tab.

Answer Status:

Correct

1 /1

Q: 9

Imagine you're building a news application that needs to fetch the latest headlines from an API. Which of the below will help?

Multiple Choice Question | 2 Points | Medium

Answer by candidate:

Employ a `Promise` object, utilizing `then()` and `catch()` methods to handle successful and failed responses, respectively.

Answer Status:

Correct

2 /2

Q: 10

Wrap an <p> element having a line of text saying "This is a paragraph." with a blue border using CSS.

Multiple Choice Question | 1 Point | Easy

Answer by candidate:

```
p {
  border: 2px solid lightblue;
}
```

Answer Status:

Correct

1 /1

PROCTORING LOG

Mar 13, 2024 3:20:32 PM

Candidate accepted the terms and started the assessment

Mar 13, 2024 3:31:19 PM

Candidate Started the Coding Section of the Assessment.

Mar 13, 2024 3:31:19 PM

Candidate switched to question 1.

Mar 13, 2024 3:39:50 PM

Candidate switched to question 2.

Mar 13, 2024 3:39:53 PM

Candidate switched to question 1.

Mar 13, 2024 3:40:04 PM

Candidate switched to question 2.

Mar 13, 2024 3:40:12 PM

Candidate switched to question 3.

Mar 13, 2024 3:40:19 PM

Candidate switched to question 4.

3:36 PM

Mar 13, 2024 3:52:15 PM

Candidate switched to question 2.

Mar 13, 2024 4:08:57 PM

Candidate switched to question 3.

Mar 13, 2024 4:30:40 PM

Candidate switched to question 4.

Mar 13, 2024 4:30:44 PM

Candidate Completed the Coding Section of the Assessment.

Mar 13, 2024 4:30:44 PM

Candidate has submitted the assessment.

Mar 13, 2024 3:20:31 PM

Candidate Started the MCQs Section of the Assessment.

Mar 13, 2024 3:20:31 PM

Candidate switched to question 1.

Mar 13, 2024 3:21:52 PM

Candidate switched to question 2.

Mar 13, 2024 3:21:55 PM

Candidate switched to question 1.

Mar 13, 2024 3:22:04 PM

Candidate switched to question 2.

Mar 13, 2024 3:23:02 PM

Candidate switched to question 3.

Mar 13, 2024 3:23:55 PM

Candidate switched to question 4.

Mar 13, 2024 3:24:22 PM

Candidate switched to question 5.

Mar 13, 2024 3:24:34 PM

Candidate switched to question 6.

Mar 13, 2024 3:25:10 PM

Candidate switched to question 7.

Mar 13, 2024 3:25:53 PM

Candidate switched to question 8.

Mar 13, 2024 3:26:00 PM

Candidate switched to question 9.

Mar 13, 2024 3:26:56 PM

Candidate switched to question 10.

Mar 13, 2024 3:27:18 PM

Candidate switched to question 1.

Mar 13, 2024 3:28:20 PM

Candidate switched to question 2.

Mar 13, 2024 3:29:16 PM

Candidate switched to question 3.

Mar 13, 2024 3:30:28 PM

Candidate switched to question 4.

Mar 13, 2024 3:30:31 PM

Candidate switched to question 5.

Mar 13, 2024 3:31:03 PM

Candidate switched to question 6.

Mar 13, 2024 3:31:05 PM

Candidate switched to question 10.

Mar 13, 2024 3:31:15 PM

Candidate Completed the MCQs Section of the Assessment.

Mar 13, 2024 4:31:04 PM

Candidate has submitted the assessment