

HTML, CSS, Reasoning and Javascript

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Result

Status: FAIL

Completed: Nov 26, 2022

Time: 52min

Total:

29 %

Bottom 3% of all candidates

Breakdown

Bootstrap	67%
HTML/CSS	44%
JavaScript	0%

Question 1

HTML/CSS . CSS SELECTORS . STYLING . PREMIUM

Score: 0%

Time: 17min 31sec

Difficulty: Easy

Description:

Write CSS which implements the following rules for all tables:

- The text in the table header should be gray (HEX: 808080).
- The text in the first column should be bold.
- Odd rows in the table body (1, 3, 5, etc.) should have white text (HEX: FFFFFF) on a gray background (HEX: 808080).

Answer

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<tittle>Format table</tittle>
<style type="text/css">
/* Write your CSS solution here (do not edit the surrounding HTML) */
thead{
color: '#808080';
}

tr{
```





```
font-weight: 'bold';
 .id1{
 color: '#FFFFFF';
 bgcolor: '808080'
 .id3{
 color: '#FFFFFF;
 bgcolor : '808080'
 .id5{
 color: '#FFFFFF;
 bgcolor: '808080'
 </style>
</head>
<body>
 <thead>
  RankName
 1.New York
  2.Los Angeles
  3.Chicago
  4.Houston
 </body>
</html>
```

Evaluation

- The header is styled correctly: Wrong Answer
- The first column's text is styled correctly: Wrong Answer
- ☑ Odd table body rows are styled correctly: Wrong Answer

Question 2

HTML/CSS . LANGUAGE . ELEMENTS AND ATTRIBUTES . PREMIUM

Score: 100%

Time: 50sec

Difficulty: Easy

Description:

Select all the HTML markups that would result in the following line of text:

A very **important** word.

Answer Correct answer | ☑ Candidate's selection

A very important word.





A very importar	✓ A very important word.				
A very <span style="</p">	☑ A very important word.				
■ A very	■ A very important word.				
A very <section p="" style<=""></section>	="font-weight: bold;">important <th>> word.</th>	> word.			
A very <div style="fo</p></th><th>nt-weight: bold;">important</div> word.					
Question 3	ŀ	HTML/CSS . CSS SELECTORS . STYLING . PREMIUM			
4					
Score:		0%			
Time:	1min 15sec				
Difficulty:	Hard				
Description:					
Given the following HTMI	code, which snippets of CSS code wou	ld result in green text?			
<div class="label">Lab</div>	<div class="label">Label</div>				
Answer Correct answ	Answer Correct answer ☑ Candidate's selection				
.label { color: red; } div.label { color: green; } div { color: blue; }					
.label { color: green; } div.label { color: red; } div { color: blue; }					
.label { color: red; } div.label { color: blue div { color: green; }	!abel { color: red; } div.label { color: blue; }				
.label { color: blue; div.label { color: rediv { color: green !i	d; }				
Question 4		JAVASCRIPT . ARITHMETIC . PREMIUM . NEW			
Score:		0%			
Time:	4min 20000	U 70			
	4min 38sec				
Difficulty:	Easy				
Description:					
		hold only one item. The available number of both large			

and small packages is limited. All items must be placed in packages and used packages have to be filled up completely.

Write a function that calculates the minimum number of packages needed to hold a given number of items. If it's not



possible to meet the requirements, return -1.



For example, if we have 16 items, 2 large and 10 small packages, the function should return 8 (2 large packages + 6 small packages).

Answer

```
function minimalNumberOfPackages(items, availableLargePackages, availableSmallPackages) {
}
console.log(minimalNumberOfPackages(16, 2, 10));
```

Evaluation

- Sample case: Wrong Answer
- ☑ Enough packages: Wrong Answer
- Not enough packages: Wrong Answer
- ☑ Performance test on a large storehouse: Wrong Answer

Question 5

JAVASCRIPT . HTTP . PROMISE . AJAX . PREMIUM

Score: 0%

Time: 2min 52sec

Difficulty: Hard

Description:

The *loadURL* method given below creates a GET request for a passed *url* parameter.

```
function loadURL(url) {
 return new Promise(function(resolve, reject) {
  var request = new XMLHttpRequest();
  request.open('GET', url);
  request.onload = function() {
    if (request.status === 200) {
     resolve(request.response);
    else {
     reject(new Error(request.status));
  };
  request.onerror = function() {
   reject(new Error("Network Error"));
  };
  request.send();
 })
 .then(res => console.log("Success:" + res))
 .catch(err => console.log(err))
 .then(res => console.log(res));
```

Select all correct statements if the GET request to "http://www.example.com" returns "Done".

Answer Correct answer | **☑** Candidate's selection

The second then method always prints the same res object as the first then method.





	The first then method of the loadURL method will print "Success:Done" in the console for a successful GET request to "http://www.example.com".				
catch callback ex	catch callback executes for any reject call.				
☐ The second then	The second <i>then</i> callback method is never called.				
The second then	The second then callback method is always called.				
	The first <i>then</i> method of the <i>loadURL</i> method will print "Success:undefined" in the console for a successful GET request to "http://www.example.com".				
Question 6		BOOTSTRAP . FORMS . PREMIUM			
Score:		67%			
Time:	1min 11sec				
Difficulty:	Easy				
Description:					
•	correct for forms made using Boots	etrap:			
Answer Correct ans	Answer Correct answer Candidate's selection				
The horizontal for	☐ The horizontal forms should be defined as <form class="form-hrz">.</form>				
☐ The submit buttor					
	i should be defined as spatton type	- Subitile Glass- Subitile F.			
	line, which allows multiple eleme				
Forms can be in	line, which allows multiple eleme				
Forms can be into	line, which allows multiple eleme	nts to appear side by side. s="form-check-input" type="checkbox">.			
Forms can be into	line, which allows multiple eleme	nts to appear side by side. s="form-check-input" type="checkbox">.			
Forms can be into The checkboxes The submit buttor Question 7	line, which allows multiple eleme	nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM			
Forms can be into the checkboxes The submit buttor Question 7 Score:	line, which allows multiple eleme	nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">.			
Forms can be into The checkboxes The submit buttor Question 7	line, which allows multiple eleme	nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM			
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Forms can be into the checkboxes The checkboxes The submit buttor Question 7 Score: Time:	line, which allows multiple eleme should be defined as <input <button="" as="" be="" class="" defined="" should="" th="" type<=""/> <th>nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM</th>	nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM			
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Forms can be into the checkboxes The checkboxes The submit buttor Question 7 Score: Time: Difficulty: Description: Which statements are	should be defined as <input 55sec="" <button="" as="" be="" class="" defined="" easy<="" should="" th="" type=""/> <th>nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM 67%</th>	nts to appear side by side. ss="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM 67%			
Forms can be into the checkboxes. The checkboxes. The submit buttor. Question 7 Score: Time: Difficulty: Description: Which statements are Answer Correct answer.	should be defined as <input <br="" as="" be="" class="" defined="" should=""/> should be defined as should be	nts to appear side by side. s="form-check-input" type="checkbox">. ="submit" class="btnSubmit">. BOOTSTRAP . STYLING . BUTTONS . PREMIUM 67% tstrap configuration?			
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The btn-info class will set the button color to light blue.

Question 8 HTML/CSS . UI . RESPONSIVE DESIGN . PREMIUM . NEW Score: 75% Time: 2min 13sec Difficulty: Easy **Description:** You are working on a travel blog which currently serves mostly desktop users but you want to attract more mobile users, which mostly browse in the portrait orientation. The site is based on a 3 column layout and there's a big fixed-size image of people riding a gondola near the top of the page. There's also a navigation menu made of main page, contact info, merchandise and gallery links arranged horizontally. Which of the following help improve the mobile users' experience on the site? **Answer Correct answer |** Candidate's selection Make the navigation menu appear at the bottom of the page, after the blog posts. Make sure to only use inline HTML elements. Use a picture element with source children elements so it shows versions of the gondola image optimized for each resolution. Add a meta element with name="viewport" and content="width=device-width, initial-scale=1.0"

Question 9

HTML/CSS . ACCESSIBILITY . PREMIUM . NEW

Score: 75%

Add a horizontal scrollbar so the whole background can be seen, even on smaller devices.

Time: 3min 47sec

Difficulty: Hard

Description:

You're working on Curious Leaf, a news website for botanical information.

One of it's pages is not very friendly to screen-reader users.

Move the navigation links to a hamburger menu.

Making sure the columns are always 1/3rd of the screen's width.

<head>
 <style>
 p.heading {
 /* Default p size is too small */
 font-size: 30px;





Whi	 edible . button onclick="su <-Subscril <img src="/brassica</body></th><th>nt"/> tivars of Brassica oleracea (Read more), it is bscribe()"> be				
Ans	swer Correct answer	er 🗹 Candidate's selection			
	Add aria-role="presentation" to the tag with the news-content id.				
	Add aria-labelledby=	d aria-labelledby="heading" to the tag with the news-content id.			
ß	Change the element with the id heading to h1 instead of p.				
\subseteq	Replace 'edible' with all uppercase letters so it's said strongly.				
\leq	Put the 'Subscribe'	the 'Subscribe' text inside the <i>button</i> .			
ď	Remove the 'Read r	Remove the 'Read more' text and instead put the hyperlink over 'Brassica oleracea'.			
	Add a style with the a	attribute speak:never to the head element.			
\subseteq	Add an <i>alt</i> attribute to the <i>img</i> tag containing a description of the photo.				
Qu	estion 10	JAVASCRIPT . ARITHMETIC . ARRAYS . ITERATION . PREMIUM			
Sco	ore:	0%			
Tin	ne:	9min 14sec			
Dif	ficulty:	Easy			
J	incurty.	Lasy			
Des	scription:				
that	contains 3 elements	s an array of 3D vectors and returns the shortest one. Each vector is represented with an array (x, y, and z). If multiple vectors have the same length, the function should return any one of them.			
То	determine the length o	of a vector use the formula: $\sqrt{x^2 + y^2 + z^2}$.			
For		of 3D vectors [[1, 1, 1], [2, 2, 2], [3, 3, 3]] findShortest should return the first vector (array [1, 1,			
Ans	swer				
/	nction findShortest(ve / Write the code that g or(vector in vectors){				

7

length = math.root.(array($x*2 + y^2 + z^2$));



```
var vectors = [[1, 1, 1], [2, 2, 2], [3, 3, 3]];
var shortest = findShortest(vectors);
console.log(shortest);
```

Evaluation

- Example case: SyntaxError at line 6
- ☑ Vectors with different lengths: SyntaxError at line 6
- Vectors with the same lengths: SyntaxError at line 6

Question 11

JAVASCRIPT . ASSOCIATIVE ARRAYS . PREMIUM . NEW

Score: 0%

Time: 6min 57sec

Difficulty: Hard

Answer

In a graphics-based web application, the *colors* array holds color-names and their corresponding color-codes. Users can suggest and add new color-names that correspond to the color-codes, like below:

```
let colors = []; colors['Red'] = '#FF0000'; // suggested by user - valid color code colors['SomeColor'] = '#GFFF00'; // suggested by user - invalid color code (G is invalid hex number)
```

The function is ValidHexColor correctly returns true if a color code is valid, else it returns false.

```
function isValidHexColor(colorCode) {
// Correct implementation. Returns true for a valid color code like #00AAFF
}
```

Fill in the blanks in the following function that filters out array elements with invalid color codes and returns an array with valid elements:

```
function filterValid(colors) {
  let filteredColors = [];
  Object.keys(colors).forEach(function(colorName) {
    if(isValidHexColor(Red)) {
      filteredColors[#GFF00] = #FF0000;
    }
  });
  return filteredColors;
}

For example, the code below should print Red: #FF0000:
  let filteredColors = filterValid(colors);
  for (const [key, value] of Object.entries(filteredColors)) {
      console.log(`${key}: ${value}`);
  }
}
```

Proctoring images (0)

