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Test Name: **MBA: Intermediate Programming Concepts**

Taken On: 2 Aug 2019 11:32:57 PDT

Time Taken: 14 min 56 sec/ 15 min

Work Experience: 1 years

Invited by: Jeff

Invited on: 2 Aug 2019 11:31:31 PDT

Tags Score:

Advanced	35/40
Call Stack	5/5
Closure	5/5
Essential	15/30
General Programming Knowledge	10/20
Intermediate Programming	0/5
Javascript	15/20
References	5/15
Regular Expressions	30/35
Values	5/15

71.4%

50/70


scored in **MBA: Intermediate Programming Concepts** in 14 min 56 sec on 2 Aug 2019 11:32:57 PDT

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Call Stacks > Sentence Completion	27 sec	5/ 10	✓
Q2	Closures > Multiple Choice	1 min 13 sec	5/ 5	✓
Q3	Regular Expressions > Multiple Choice	41 sec	0/ 5	✗
Q4	Call Stack > Multiple Choice	2 min 35 sec	5/ 5	✓
Q5	References > Multiple Choice	1 min 14 sec	5/ 5	✓
Q6	References/Values > Multiple Choice	47 sec	0/ 5	✗
Q7	Functional vs. Imperative Programming > Multiple Choice	3 sec	0/ 5	✗
Q8	Regular Expressions > Coding	2 min 28 sec	30/ 30	✓

QUESTION 1



Correct Answer

Score 5

Call Stacks > Sentence Completion

General Programming Knowledge

Advanced

QUESTION DESCRIPTION

Problem Statement

Use the following words to fill in the blanks to complete the information about call stacks.

- programs
- stack frames
- threads
- subroutines

Complete String

A call stack is composed of {blank} which refer to calls to individual {blank} which have not yet terminated.

INTERNAL NOTES

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CANDIDATE ANSWER

A call stack is composed of stack frames ✓ which refer to calls to individual programs ✗ which have not yet terminated.

No Comments

QUESTION 2

Correct Answer

Score 5

Closures > Multiple Choice

Closure

Javascript

Essential

QUESTION DESCRIPTION

What is the return value of the last line of the following code?

```
function example() {  
  const arr = [];  
  return function(num) {  
    arr.push(num);  
    return arr;  
  }  
}  
  
const a = example();  
a(5);  
a(6);  
  
const b = example();  
b(1);  
b(2);  
  
// What is the return value of the following line?  
a(10);
```

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

- ☒ [5, 6, 10]
- ☐ [5, 6, 1, 2, 10]
- ☐ [10]
- ☐ []

No Comments

QUESTION 3

Wrong Answer

Score 0

Regular Expressions > Multiple Choice

Regular Expressions

Essential

QUESTION DESCRIPTION

Given the following string:

`"https://www.talentmatch.ai/"`

What part of the string will the following regular expression match?

`/^.+w+/"`**CANDIDATE ANSWER****Options:** (Expected answer indicated with a tick)

- ☐ "https://w"
- ☒ "https://www"
- ☐ "https://ww"
- ☐ "https://www.talentmatch.ai"

No Comments

QUESTION 4

Correct Answer

Score 5

Call Stack > Multiple Choice

Call Stack

Javascript

General Programming Knowledge

Essential

QUESTION DESCRIPTION


Given the following code:

```
function threeOrZero(num) {  
  return num === 3 ? 3 : 0;  
}  
  
function fiveOrZero(num) {  
  // *****  
  // What does the call stack look like when this line is reached?  
  // *****  
  return num === 5 ? 5 : 0;  
}  
  
function addAndCompare(originalNum) {  
  const newNum = threeOrZero(originalNum);  
  return fiveOrZero(newNum);  
}  
  
function stackFunc(num) {  
  return addAndCompare(num);  
}  
  
stackFunc(0);
```

When the above code is executed, what does the call stack look like when the comment is reached?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☐ 1 fiveOrZero
0 main
- ☐ 2 fiveOrZero
1 stackFunc
0 main
- ☒  ☒ 3 fiveOrZero
2 addAndCompare
1 stackFunc
0 main
- ☐ 4 fiveOrZero
3 threeOrZero
2 addAndCompare
1 stackFunc
0 main

No Comments

QUESTION 5

Correct Answer

Score 5

References > Multiple Choice

References

Values

Javascript

Essential

QUESTION DESCRIPTION

What is printed on to the console from the following code?

```
function example(obj) {  
  const a = obj;  
  const b = obj;  
  const c = obj;  
  a.val = 5;  
  b.val = 6;  
  console.log(a === obj);  
  console.log(b === obj);  
  console.log(c === obj);  
  console.log(a === b);  
}  
  
const testArg = { val: 3 };  
  
example(testArg);
```

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

true

true

true

true



false

false

false

false



false

false

true

false



true

false

false

false

No Comments

QUESTION 6



Wrong Answer

Score 0

References/Values > Multiple Choice

Intermediate Programming

Javascript

References

Values

Essential

QUESTION DESCRIPTION

What is the return value of the following code?

```
function someFunc(arr) {  
  const newArr = [];  
  arr.forEach(subArr => newArr.push(subArr));  
  newArr[0][0] = 'A';  
  arr[1][1] = 'C';  
  return newArr;  
}  
  
const testArr = [  
  ['E', 'E'],  
  ['B', 'B']  
];  
  
someFunc(testArr);
```

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☐ [
- ['E', 'E'],
- ['B', 'C']
-]
- ☒ [
- ['A', 'E'],
- ['B', 'B']
-]
- ☐ [
- ['E', 'E'],
- ['B', 'B']
-]
- ☒ [
- ['A', 'E'],
- ['B', 'C']
-]

No Comments

QUESTION 7

Wrong Answer

Score 0

Functional vs. Imperative Programming > Multiple Choice

General Programming Knowledge

References

Values

Essential

QUESTION DESCRIPTION

Which of the following choices is **one** of the main ideas of the **Functional Programming** paradigm?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☐ Sharing state between different functions.
- ☒ Writing imperative code, which describes how to achieve desired results.
- ☐ Creating mutable objects and data structures to track state changes in our programs.
- ☒ Creating functions that when given the same input, will always return the same output.
- ☐ Encapsulating common functions into classes.

No Comments

QUESTION 8



Correct Answer

Score 30

Regular Expressions > Coding

Regular Expressions

Advanced

QUESTION DESCRIPTION

Write a regular expression that will match the bolded parts of the following strings:

"https://**www.talentmatch.ai**/welcome"

"http://**talentmatch.ai**/home"

"https://**appacademy.io**/about"

The function provided should return a string version of the regular expression.

```
def my_expression
  "w"
end

#=> Automatically converted to regular expression /w/
#=> Will match the first 'w' in 'https://www.talentmatch.ai/'
```

INTERNAL NOTES

30

CANDIDATE ANSWER

Language used: Ruby

```
1 # Complete the method below.
2
3 def my_expression()
4   # Write your code here. Return a string version of a regular expression.
5   /\:\/\/(.*?)\//
6 end
7
8
9
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Example Test	Medium	Sample case	Success	10	0.099 sec	12.2 KB
Testcase 1	Easy	Sample case	Success	10	0.1043 sec	12.2 KB
Testcase 2	Easy	Sample case	Success	10	0.1066 sec	12.1 KB

No Comments