



< Previous



Next >

Notifications



## JSON Quiz

Bookmark this page

**Pursue a verified certificate**

- ✓ Earn a **verified certificate** of completion to showcase on your resumé
- ✓ Support our **mission** at edX

Upgrade for \$50



Hide Notes

Quiz due May 4, 2022 00:53 IST

Each multiple-choice quiz problem is based on a "root question," from which the system generates different correct and incorrect choices each time you take the quiz. Thus, you can test yourself on the same material multiple times. We strongly urge you to continue testing on each topic until you complete the quiz with a perfect score at least once. Simply click the "Reset" button at the bottom of the page for a new variant of the quiz.

After submitting your selections, the system will score your quiz, and for incorrect answers will provide an "explanation" (sometimes for correct ones too). These explanations should help you get the right answer the next time around. To prevent rapid-fire guessing, the system enforces a minimum of 10 minutes between each submission of solutions.

## Q1

1/1 point (graded)

[Q1] Which of the following is NOT a valid JSON object?

☐

```
{ "name": "Smiley",  
  "age": 20,  
  "phone": null,  
  "email": "null",  
  "happy": true }
```

☐

```
{ "name": "Smiley",  
  "age": 20,  
  "phone": "888-123-4567",  
  "email": "smiley@xyz.com",  
  "happy": true }
```

☒

```
{ "name": "Smiley",  
  "age": 20,  
  "phone": { "888-123-4567", "888-765-4321" },  
  "email": "smiley@xyz.com",  
  "happy": true }
```

☐

```
{ "name": "Smiley",  
  "age": "20",  
  "phone": "888-123-4567",  
  "email": "smiley@xyz.com",  
  "happy": true }
```



### Problem Explanation

In JSON objects, all labels (property names) must be quoted, and

all label-value pairs must be separated by commas. Values in label-value pairs can be numbers, quoted strings, true, false, null, objects, or arrays. Objects and arrays may be empty.

Submit

 Answers are displayed within the problem

## Q2

1/1 point (graded)

[Q2] Which of the following is NOT a valid JSON array?



```
[ [1, 2], ["dog", "cat"], [true, false], [1, "dog", null],  
  {"pet":"dog", "fun":true} ]
```



```
[ 1, 2, dog, cat, true, false, [1, "dog", null],  
  {"pet":"dog", "fun":true} ]
```



```
[ [1, 2, "dog", "cat", true, false, [1, "dog", null],  
  {"pet":"dog", "fun":true}] ]
```



```
[ [1], [2], ["dog"], ["cat"], [true], [false], [1],  
  ["dog"],  
  [null], {"pet":"dog", "fun":true} ]
```



### Problem Explanation

A JSON array is a comma-separated, [] enclosed list of JSON values. Values can be numbers, quoted strings, true, false, null, objects, or arrays. Objects and arrays may be empty. Objects must be a set of label-value pairs.

Submit

 Answers are displayed within the problem

## Q3

1/1 point (graded)

[Q3] Consider the following JSON Schema specification:

```
{  
  "type": "object",  
  "properties":  
    { "ItemID": { "type":"string", "pattern":"Item*" },  
      "ItemName": { "type":"string" },  
      "Price": { "type":"integer", "minimum":10,
```

 Hide Notes

```

"maximum":100 },
  "Sellers": { "type":"array", "maxItems":3,
               "items": { "type":"string" }},
  "Ratings": { "type":"array",
               "items":
                 { "type": "object",
                   "properties": {"Rater":
                                   {"type": "string",
                                     "optional": true},
                                   "Score":
                                   {"type": "integer",
                                     "maximum":5}}}},
  "minimum":1,
  "AvgRating": { "type":"number", "optional":true },
  "FreeShipping": {"type":"boolean" }
}

```

Select, from the choices below, the JSON data that *is* valid according to the JSON Schema specification above.



```

{ "ItemID": "Item123",
  "ItemName": "desk",
  "Price": 50,
  "Sellers": ["Amy","Ben"],
  "Ratings": [{ "Rater":"Amy", "Score":5}, {"Score":1},
               {"Rater":"Carl", "Score":4}],
  "AvgRating": 3.33,
  "FreeShipping": [true] }

```



```

{ "ItemID": "Item123",
  "ItemName": "desk",
  "Price": 50,
  "Sellers": [ ],
  "Ratings": [{ "Rater":"Amy", "Score":5}, {"Score":1},
               {"Rater":"Carl", "Score":4}],
  "AvgRating": 3.33,
  "FreeShipping": true }

```



```

{ "ItemID": "Item123",
  "ItemName": "desk",
  "Price": 50,
  "Sellers": ["Amy","Ben","Eve","Fred"],
  "Ratings": [{ "Rater":"Amy", "Score":5}, {"Score":1},
               {"Rater":"Carl", "Score":4}],
  "AvgRating": 3.33,
  "FreeShipping": true }

```



```

{ "ItemID": "123",
  "ItemName": "desk",
  "Price": 50,
  "Sellers": ["Amy","Ben"],
  "Ratings": [{ "Rater":"Amy", "Score":5}, {"Score":1},
               {"Rater":"Carl", "Score":4}],
  "AvgRating": 3.33,
  "FreeShipping": true }

```



### Problem Explanation

JSON data that is valid according to the JSON Schema specification must have: an itemID that is a string beginning with "Item"; a Price that is an integer between 10 and 100; an array of between 0 and 3 Sellers; an array of 0 or more Ratings, each of which is either a Rater-Score pair, or just a Score, where scores are integers between 1 and 5; a FreeShipping designation of either true or false. (AvgShipping, a real number, is optional.)

Submit

**i** Answers are displayed within the problem

## Q4

1/1 point (graded)

[Q4] Consider the following JSON data:

```
{ "A": [1,1,2,2], "B": {"C":3, "D":4}, "E":[5,6,true], "F": {"G": [null,7]} }
```

Which of the following could NOT be included as part of a JSON Schema specification that is satisfied by the JSON data above? Assume that every letter ("A", "B", "C", ...) appears in the JSON Schema specification exactly once.



```
"A": {"type":"array", "minItems":0, "maxItems":3,
      "items":{"type":"integer"}}
```



```
"B": {"type":"object",
      "properties": {"C": {"type":"integer"}}}
```



```
"G": {"type":"array", "items": {"type":
["null","integer"]}}
```



```
"C": {"type":"integer"}
```



### Problem Explanation

The following JSON Schema specification is valid for the given data:

```
{ "type": "object",
  "properties": {
    "A": {"type":"array", "minItems":4,
          "maxItems":4, "items":{"type":"integer"}},
    "B": {"type":"object",
          "properties": {"C": {"type":"integer"}, "D":
```

[< Previous](#)

[Next >](#)

© All Rights Reserved



## edX

[About](#)

[Affiliates](#)

[edX for Business](#)

[Open edX](#)

[Careers](#)

[News](#)

## Legal

[Terms of Service & Honor Code](#)

[Privacy Policy](#)

[Accessibility Policy](#)

[Trademark Policy](#)

[Sitemap](#)

## Connect

[Blog](#)

[Contact Us](#)

[Help Center](#)

[Media Kit](#)



© 2022 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)

Hide Notes