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Check for Understanding: Data Structures

Check for Understanding

Let's pause again to do a quick check for understanding.

Quiz Question

Which of the following statements about tuples are true? Select **all** that apply.

☐ A tuple is a mutable data structure.

☒ A tuple is an ordered data structure.



☒ A tuple can be indexed and sliced like a list.



☐ A tuple is defined by listing a sequence of elements separated by commas and contained within curly braces: `{}`

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Quiz Question

Which of the following statements about sets are true? Select **all** that apply.

☐ A set is a mutable data structure.

☐ A set is an ordered data structure.

☐ A set can be indexed and sliced like a list.

☐ A set does not contain duplicate elements.

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Quiz Question

Is the following statement true or false?

A set is the only data structure defined with curly braces: `{}`

☐ True

☐ False

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Quiz Question



Which of the following statements about dictionaries are true? Select **all** that apply.

- ☐ A dictionary is a mutable data structure.
- ☐ A dictionary is an ordered data structure.
- ☐ A dictionary can be indexed using keys.
- ☐ The keys of a dictionary are unique.
- ☐ Any data type can be used as a key in a dictionary.

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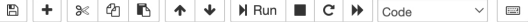
Quiz: Identify the Problem

Run the code below - it should break. Take a look at the error message and try to figure out what the issue is. Then, answer the quiz question below the editor.



 **jupyter** dictionary_keys Last Checkpoint: 10/17/2022 (autosaved) 

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Not Trusted Python 3



```
In [ ]: # invalid dictionary - this should break
room_numbers = {
    ['Freddie', 'Jen']: 403,
    ['Ned', 'Keith']: 391,
    ['Kristin', 'Jazzmyne']: 411,
    ['Eugene', 'Zach']: 395
}
```

 Menu  Expand

Quiz Question

What's wrong with the code above?

- ☐ The dictionary can not use a container for its keys
- ☐ The dictionary is using a mutable datatype for its keys
- ☐ There are too many values in each dictionary key

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