Nested Dictionaries

CSE 1310 – Introduction to Computers and Programming
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Nesting Dictionaries

- A dictionary with dictionaries as values

```python
my_dict = {123: {'name': 'John', 'age': 50},
           456: {'name': 'Mary', 'age': 30}}
```

- Outer dictionary brackets?
Nesting Dictionaries

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– Outer dictionary keys?
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– Inner dictionary values
Accessing Nested Dictionaries

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my_dict = {123: {'name': 'John', 'age': 50},
          456: {'name': 'Mary', 'age': 30}}

How do you access 'John'?```
Accessing Nested Dictionaries

```python
my_dict = {123: {'name': 'John', 'age': 50}, 456: {'name': 'Mary', 'age': 30}}
```

How do you access 'John'?
```
my_dict[123]['name']
```
Accessing Nested Dictionaries

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How do you access 'John'?

my_dict[123]["name"]
Accessing Nested Dictionaries

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my_dict = {123: {'name': 'John', 'age': 50}, 456: {'name': 'Mary', 'age': 30}}

How do you access 'John'? 
```
Looping and Dictionaries

my_dict = {123: {'name': 'John', 'age': 50},
           456: {'name': 'Mary', 'age': 30}}

for item in my_dict:
    ...

What is item?
Looping and Dictionaries

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my_dict = {123: {'name': 'John', 'age': 50},
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What is item? A key.

How do we access the name value?
Looping and Dictionaries

```python
my_dict = {123: {'name': 'John', 'age': 50},
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for item in my_dict:
    name = my_dict[item]['name']
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How do we access the name value?
Looping and Dictionaries

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How do we access the name value?
Looping and Dictionaries

my_dict = {123: {'name': 'John', 'age': 50},
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for key1 in my_dict:
    ...

What about looping through ‘name’ and ‘age’?
Looping and Dictionaries

my_dict = {123: {'name': 'John',
                 'age': 50},
           456: {'name': 'Mary',
                 'age': 30}}

for key1 in my_dict:
    for key2 in my_dict[key1]:
        print my_dict[key1][key2]

What about looping through ‘name’ and ‘age’?
Looping and Dictionaries

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my_dict = {123: {'name': 'John', 'age': 50},
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for key1 in my_dict:
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