1. Which of the following is best suited for a dictionary instead of a list?

A. The order in which people finish a race
B. The ingredients necessary for a recipe
C. The names of world countries and their capital cities
D. 50 random integers

C. There is a clear key-value relationship between country and capital

2. What is the dictionary d created by the following code?

```python
d = {3:4}
d[5] = d.get(4, 8)
d[4] = d.get(3, 9)
```

A. After the first line, d is {3:4}, after the second {3:4, 5:8} and after the third {3:4, 5:8, 4:9}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

B. After the first line, d is {3:4}, after the second {3:4, 5:8} and after the third {3:4, 5:8, 4:4}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

3. What is the dictionary d created by the following code?

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A. After the first line, d is {3:4}, after the second {3:4, 5:8} and after the third {3:4, 5:8, 4:9}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

B. After the first line, d is {3:4}, after the second {3:4, 5:8} and after the third {3:4, 5:8, 4:4}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

C. After the first line, d is {3:4}, after the second {3:4, 5:8} and after the third {3:4, 5:8, 4:4}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

D. Error caused by get

4. What is the dictionary d created by the following code?

```python
d = {1:5}
d[2] = d.get(1, 6)
d[4] = d.get(3, 7)
```

A. After the first line, d is {1:5}, after the second {1:5, 2:5} and after the third {1:5, 2:5, 4:7}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

B. After the first line, d is {1:5}, after the second {1:5, 2:5} and after the third {1:5, 2:5, 4:7}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

C. After the first line, d is {1:5}, after the second {1:5, 2:5} and after the third {1:5, 2:5, 4:7}. Recall the first argument to get is the key, if it is present in the dictionary, its value is returned, if not, its second argument is returned.

D. Error caused by get

5. What is the dictionary d created by the following code?

```python
d = {1:5}
d[2] = d.get(1, 6)
d[4] = d.get(3, 7)
```
6. Which of the following is a difference between lists and dictionaries?

A. List elements cannot be mutable, but dictionary values can be mutable
B. Assigning to an index that does not exist in a list is an error, but assigning a value to a key that does not exist in a dictionary is not
C. A list can contain a dictionary as one of its elements, but a dictionary cannot contain a list as one of its values
D. There is a dict constructor that creates a dictionary from a suitable object, but there is no list constructor that similarly creates lists