

! This quiz has been regraded; your score was not affected.

Quiz 5 (Spring 2025)



- Due Apr 24 at 1:38pm
- Points 20
- Questions 11
- Available until Apr 24 at 1:38pm
- Time Limit 20 Minutes

This quiz was locked Apr 24 at 1:38pm.

Attempt History

	Attempt	Time	Score	Regraded
LATEST	Attempt 1	4 minutes	14 out of 20	14 out of 20

Score for this quiz: 14 out of 20

Submitted Apr 22 at 5:55pm

This attempt took 4 minutes.



Question 1

2 / 2 pts

What is printed to the screen when the following program runs?

```
#include <iostream>
```

```
#include <map>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    map<string, int> zoo;
```

```
    map<string, int>::iterator it;
```

```
    zoo["monkey"] = 1;
```

```
    zoo["zebra"] = 2;
```

```
    zoo["lion"] = 3;
```

```
    it = zoo.begin();
```


```
    cout << it->first<<endl;
```

```
}
```

☐ the correct answer if not listed

Correct!



- ☒ lion
- ☐ monkey
- ☐ zebra
- 

Question 2

2 / 2 pts

What is printed to the screen when the following program runs?

```
#include <iostream>

#include <map>
using namespace std;
int main()
{
    map<string, int> zoo;
    zoo["monkey"] = 1;
    zoo["zebra"] = 2;
    zoo["lion"] = 3;
    auto it = zoo.begin();
    cout << zoo.size( );
}
```

- ☐ 2
- ☐ 1
- ☐ The correct answer is not listed

Correct!

- ☒ 3



Question 3

2 / 2 pts

What is the default order of elements in a `std::map`?

Correct!

- ☒ Ascending order based on the key
- ☐ Random
- ☐ Insertion order
- ☐ Descending order



Question 4

0 / 2 pts

Which function would you use to remove an element with a specific key from a map?

☐ myMap.delete(1);

Correct Answer

☐ myMap.erase(1);

You Answered

☒ myMap.remove(1);

☐ myMap.clear(1);



Question 5

2 / 2 pts

What will `myMap.size()` return if `myMap` is an empty map?

Correct!

☒ 0

☐ -1

☐ undefined

☐ 1



Question 6

0 / 2 pts

How do you insert a key-value pair into a map?

☐ The correct answer is not listed.

You Answered

☒ myMap.push(1, "One");

Correct Answer

☐ myMap[1] = "One";

☐ myMap.add(1, "One");



Question 7

2 / 2 pts

Which of the following is the correct syntax to declare a map that associates `int` keys with `string` values?

☐ `std::map<int & string> myMap;`

☐ `std::map<string, int> myMap;`

☐ `map<int><string> myMap;`

Correct!

☒ `std::map<int, string> myMap;`





Question 8

1 / 1 pts

What header file do you need to include to use the `std::map` in C++?

- ☐ `<vector>`
- ☐ `<algorithm>`

Correct!

- ☒ `<map>`
- ☐ `<list>`



Question 9

2 / 2 pts

Can a `std::map` have duplicate keys?

- ☐ Only if the keys are of different types
- ☐ Only if the values are different
- ☐ yes

Correct!

- ☒ no



Question 10

1 / 1 pts

How do you clear all elements from a map?

- ☐ `myMap.delete_all();`
- ☐ `myMap.empty();`

Correct!

- ☒ `myMap.clear();`
- ☐ `myMap.remove_all();`



Question 11

Original Score: 0 / 2 pts Regraded Score: 0 / 2 pts

⚠ This question has been regraded.

How can you check if a key exists in a map?

- ☐ `myMap.exists(1);`
- ☐ `myMap.find(1) != myMap.end();`

Correct Answer

- ☐ `myMap.contains(1);`



You Answered

☒ All answers are correct

Quiz Score: 14 out of 20

