

# Quiz

A short quiz to test your understanding of templates in C++

1

Which of the following is true about templates?

- 1) `Template` allows code to be written `for` different data types.
- 2) `A` single `function` can be used `for` all data types including user defined types.
- 3) `One class` can be used `for` all data types including user defined types.
- 4) `Template` is example `of` compile time polymorphism

2

Which keyword can be used in template?

3



What is the output of the following program?

```
template <typename T>
T maximum(T a, T b)
{
    return (a > b)? a : b;
}
int main()
{
    cout << maximum(4, 6) <<endl;
    cout << maximum(4.0, 6.1) <<endl;
    cout << maximum(4, 6.5) <<endl;
    return 0;
}
```

4

What is the output of the following program?

```
template <class T>
class Score
{
private:
    T value;
public:
    static int counter;
    Score() {counter++;}
};

template<class T>
int Score<T>::counter = 0;

int main()
{
    Score<int> x;
    Score<int> y;
    Score<double> z;
    cout << Score<int>::counter<< endl;
    cout << Score<double>::counter<< endl;
    return 0;
}
```



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