

63 C++ Templates_Must for Competitive Programming_C++ Tutorials for Beginners #63.mp4 - VLC media player

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Templates

Class → Object

Template → Class
↓
(Parameterized classes)

Why use templates?

- DRY
- Generic Programming

Class vector {

int * arr;

int size;

Public:

VecInt ✓

VecFloat ✓

VecDouble ✓

VecChar ✓

DRY

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Syntax for Templates

```
template <class T>
class vector {
    T* arr;
    Public:
        vector(T* arr)
        {
            // code
        }
        // & many other methods
}
```

T can be int, float, char etc...

```
int main() {
    → vector<int> myVec(ptr);
    → vector<float> myfVec(ptr);
}
```

→ represent many classes

Competitive Programming

STL