

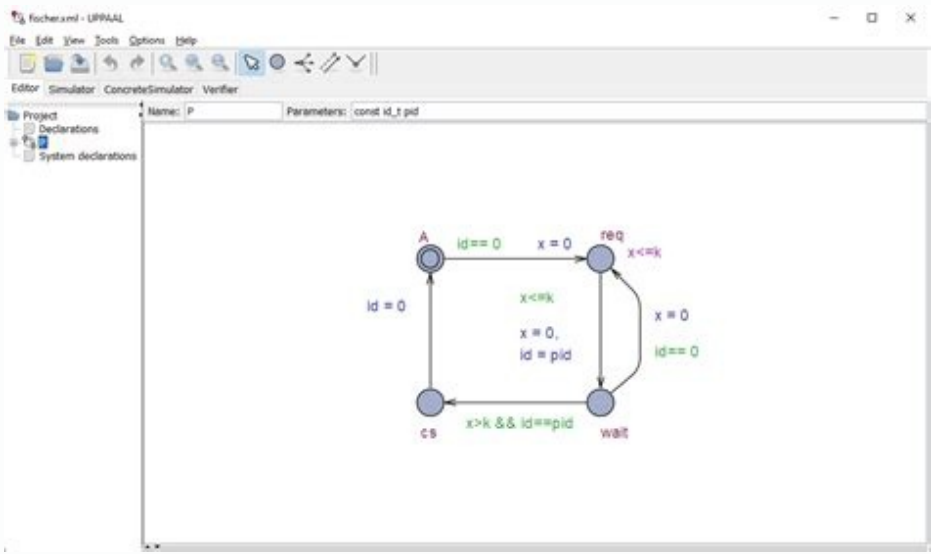
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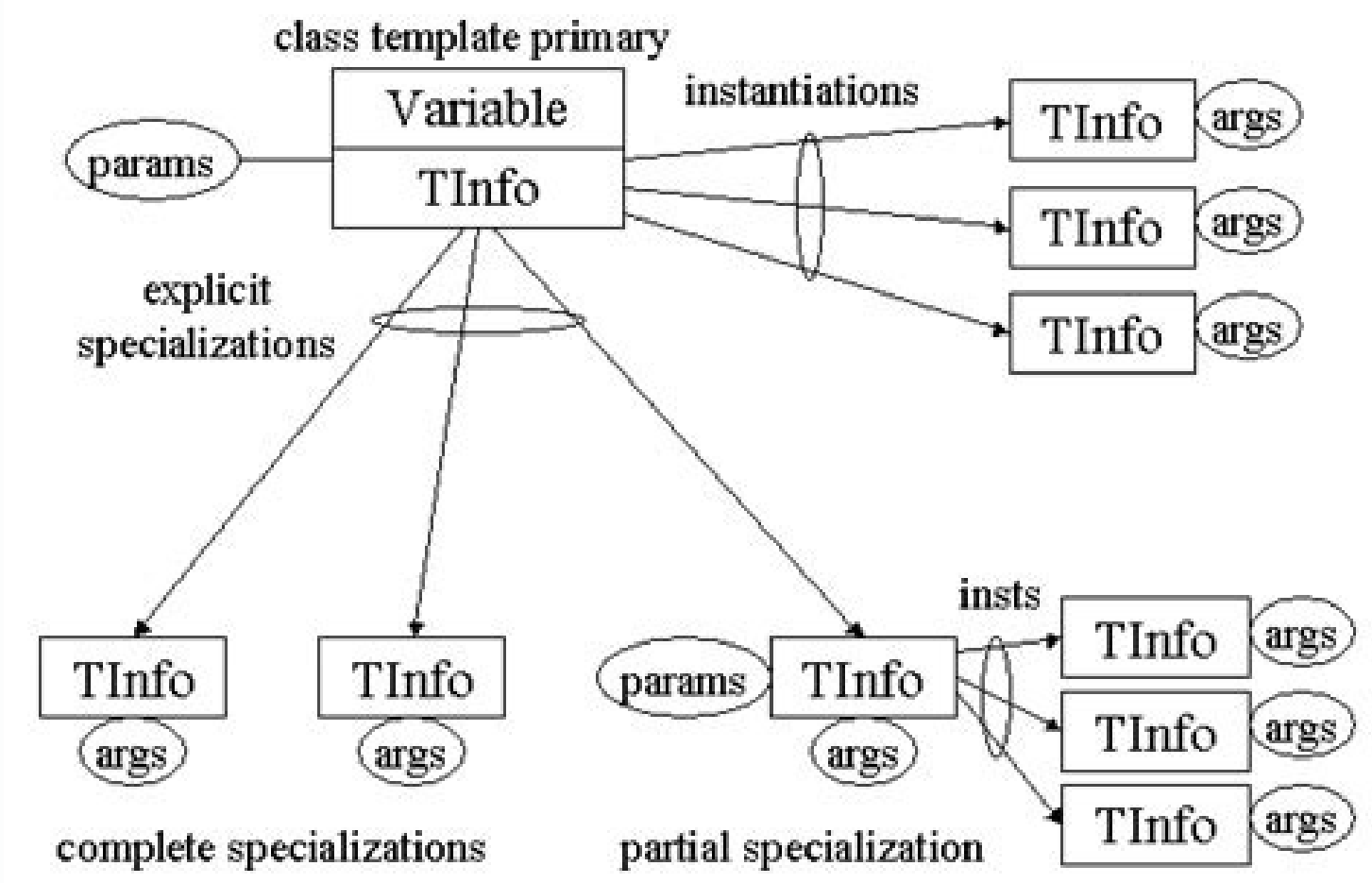

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C template instantiation



Class Templates



```
#include <iostream>
#include <vector>
#include <algorithm>
using namespace std;

int main() {
    vector<int>v = {1,2,3,4,5};

    make_heap(v.begin(), v.end());
    v.push_back(6);
    push_heap(v.begin(), v.end());
}
```

In instantiation of function template specialization 'std::_Vector_val<std:: Simple_types<int> > > >':
no type named 'value_type' in 'std::indirectly_readable_ _Vector_val<std:: Simple_types<int> > > >'

Declared In: algorithm

namespace std

template<_RanIt>
constexpr void push_heap(_RanIt _First,
Header Search Paths

main

The complete definition must appear before the explicit instantiation of a class template, a member class of a class template, or a member class template, unless an explicit specialization with the same template arguments appeared before. (until C++11) [edit] Class template instantiation A class template by itself is not a type, or an object, or any other entity. No code is generated from a source file that contains only template definitions. Explicit instantiation definitions ignore member access specifiers: parameter types and return types may be private. (since C++11) Classes, functions, variables, (since C++14) and member template specializations can be explicitly instantiated from their templates. When an explicit instantiation names a class template specialization, it serves as an explicit instantiation of the same kind (declaration or definition) of each of its non-inherited non-template members that has not been previously explicitly specialized in the translation unit. It may appear in the program anywhere after the template definition, and for a given argument-list, is only allowed to appear once in the entire program, no diagnostic required. Files that instantiated exported templates did not need to include their definitions; the declaration was sufficient. If a function template, variable template, (since C++14) member function template, or member function or static data member of a class template is explicitly instantiated with an explicit instantiation definition, the template definition must be present in the same translation unit. // Z::g() is never needed and never instantiated. // it does not have to be defined If a class template has been declared, but not defined, at the point of instantiation, the instantiation yields an incomplete class type: template class X; // declaration, not definition X ch; // error: incomplete type X Local classes and any templates used in their members are instantiated as part of the instantiation of the entity within which the local class or enumeration is declared. From cppreference.com A class template defines a family of classes. template struct Z // template definition { void f() {} void g(); // never defined }; template struct Z; // explicit instantiation of Z Z* a; // implicit instantiation of Z Z* p; // nothing is instantiated here p->f(); // implicit instantiation of Z and Z::f() occurs here. (since C++17) [edit] See also [edit] Syntax template < parameter-list > class-declaration (1) export template < parameter-list > class-declaration (2) (removed in C++11) [edit] Explanation export was an optional modifier which declared the template as exported (when used with a class template, it declared all of its members exported as well). [edit] Implicit instantiation When code refers to a template in context that requires a completely defined type, or when the completeness of the type affects the code, and this particular type has not been explicitly instantiated, implicit instantiation occurs. Implementations of export were rare and disagreed with each other on details. If this explicit instantiation is a definition, it is also an explicit instantiation definition only for the members that have been defined at this point. Only the declaration is required to be visible when explicitly instantiating a function template, a variable template, (since C++14) a member function or static data member of a class template, or a member function template. For example, when an object of this type is constructed, but not when a pointer to this type is constructed. [edit] Explicit instantiation template class-key template-name < argument-list > ; (1) extern template class-key template-name < argument-list > ; (2) (since C++11) class-key - class, struct or union 1) Explicit instantiation definition 2) Explicit instantiation declaration An explicit instantiation definition forces instantiation of the class, struct, or union they refer to. Member functions, member classes, and static data members of class templates can be explicitly instantiated from their member definitions. In order for any code to appear, a template must be instantiated: the template arguments must be provided so that the compiler can generate an actual class (or function, from a function template). This applies to the members of the class template: unless the member is used in the program, it is not instantiated, and does not require a definition. Explicit instantiation can only appear in the enclosing namespace of the template, unless it uses qualified-id: namespace N { template class Y // template definition { void mf() {} }; } // template class Y; // error: class template Y not visible in the global namespace using N::Y; // template class Y; // error: explicit instantiation outside // of the namespace of the template template class N::Y; // OK: explicit instantiation template void N::Y::mf(); // OK: explicit instantiation Explicit instantiation has no effect if an explicit specialization appeared before for the same set of template arguments. This can be used to reduce compilation times by explicitly declaring a template instantiation in all but one of the source files using it, and explicitly defining it in the remaining file. An explicit instantiation declaration (an extern template) skips implicit instantiation step: the code that would otherwise cause an implicit instantiation instead uses the explicit instantiation definition provided elsewhere (resulting in link errors if no such instantiation exists).

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