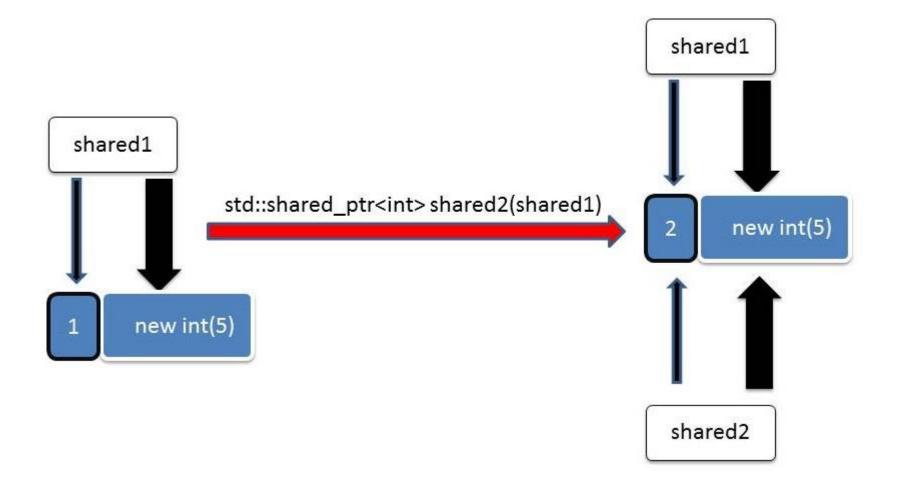
std::shared ptr



std::shared_ptr

std::shared_ptr shares a resource and releases it.

- std::shared_ptr
 - has a reference to the resource and the reference counter.
 - is C++'s answer to garbage collection.
 - has management overhead.
 - deterministically releases the resource.
 - can be configured with a deleter: shared_ptr<int> shPtr(new int, Del());.
 - Is half thread safe:



• The underlying resource is not thread safe.

std::shared_ptr

| Member Function | Description |
|-------------------------------|---|
| <pre>sha.unique()</pre> | Checks, if the std:shared_ptr is the only owner of the resource. |
| <pre>sha.use_count()</pre> | Returns the value of the reference counter. |
| sha.get() | Returns a pointer to the resource. |
| sha.reset(ptr) | Replaces the resource.Eventually destructs the resource. |
| sha.swap(sha2) | Swaps the std:shared_ptr. |
| <pre>sha.get_deleter()</pre> | Returns the delete function. |
| <pre>std::make_shared()</pre> | Generates the resource and manages it. |

sharedPtr.cpp
sharedPtrDeleter.cpp