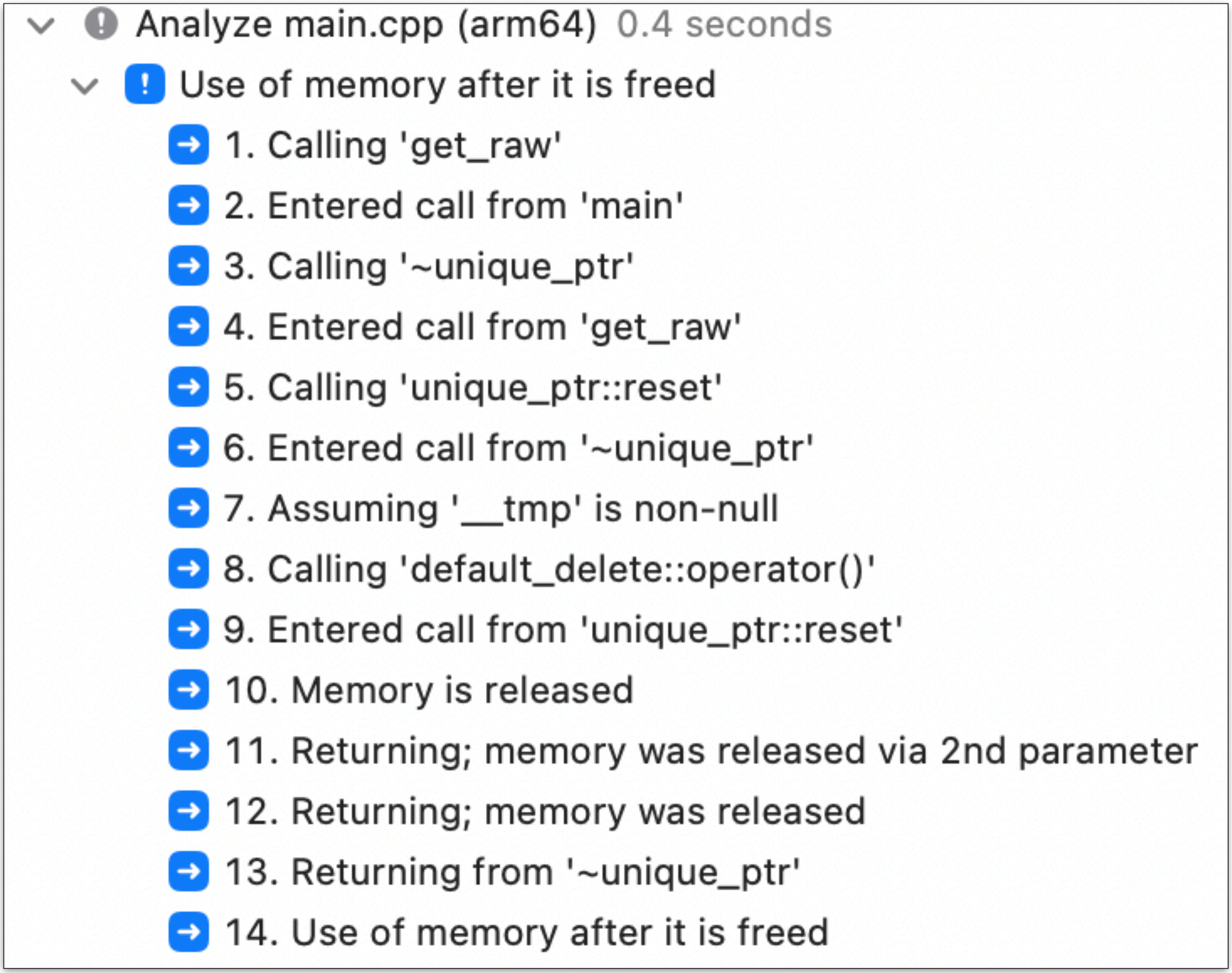
Lifetime: Static Analysis

36

```
int* get_raw() {
    auto ptr = std::make_unique<int> (42);
    return ptr.get();
}

int main() {
    auto raw = get_raw();
    std::cout << "Hello " << *raw;
}
```


Analyze main.cpp (arm64) 0.4 seconds
Use of memory after it is freed
1. Calling 'get_raw'
2. Entered call from 'main'
3. Calling '~unique_ptr'
4. Entered call from 'get_raw'
5. Calling 'unique_ptr::reset'
6. Entered call from '~unique_ptr'
7. Assuming '__tmp' is non-null
8. Calling 'default_delete::operator()'
9. Entered call from 'unique_ptr::reset'
10. Memory is released
11. Returning; memory was released via 2nd parameter
12. Returning; memory was released
13. Returning from '~unique_ptr'
14. Use of memory after it is freed

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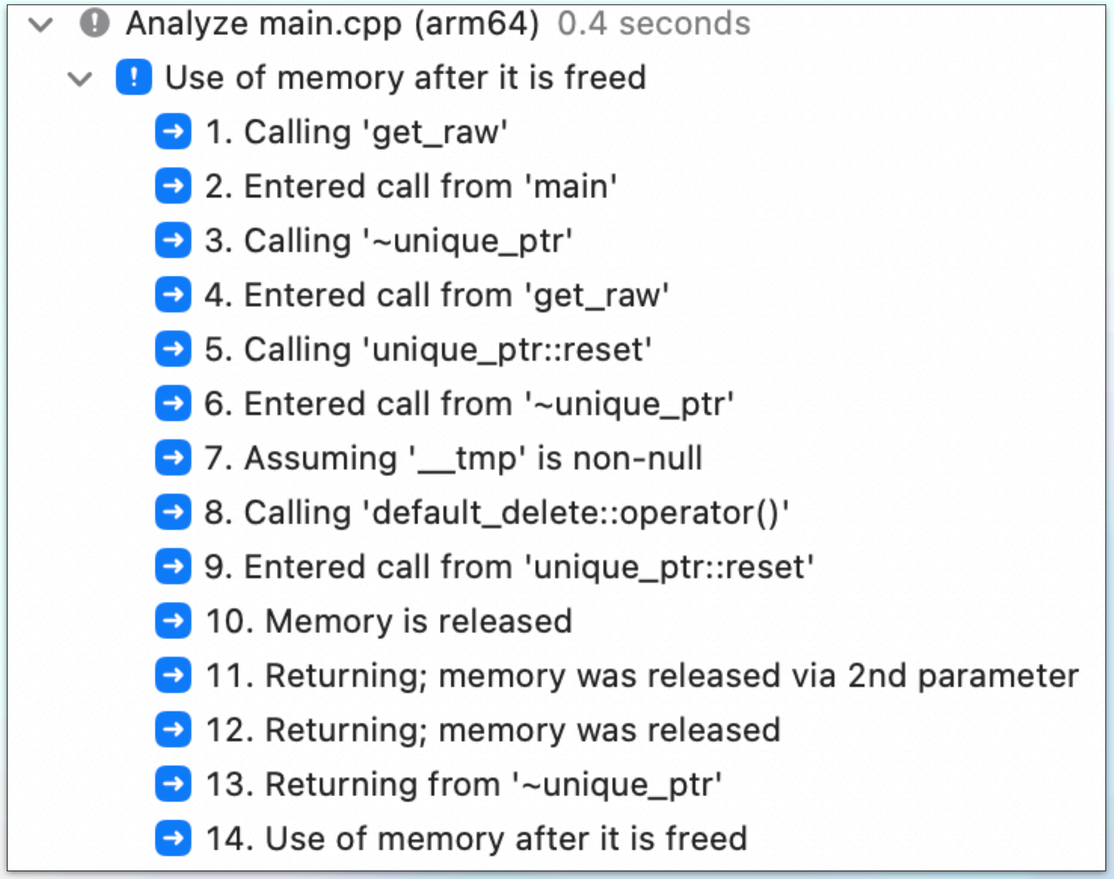

Tests