FAQ - Continuous Evaluation

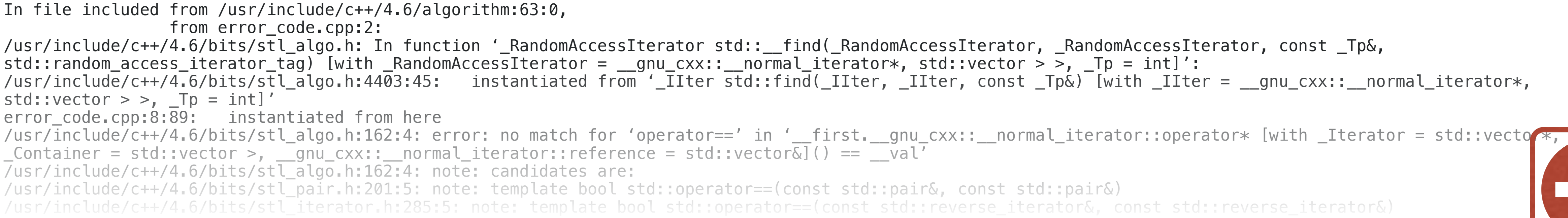
Q: How do we prevent unsafe code execution? When code buys and sells stocks or launches rockets, should such code be automatically executed?

A:

Lamdu is a pure language (similar to Haskell). Execution of code with effects is performed only when the user explicitly chooses so.

Type Errors

Static typing has many benefits, but usually it adds verbosity and requires deciphering complicated type errors.

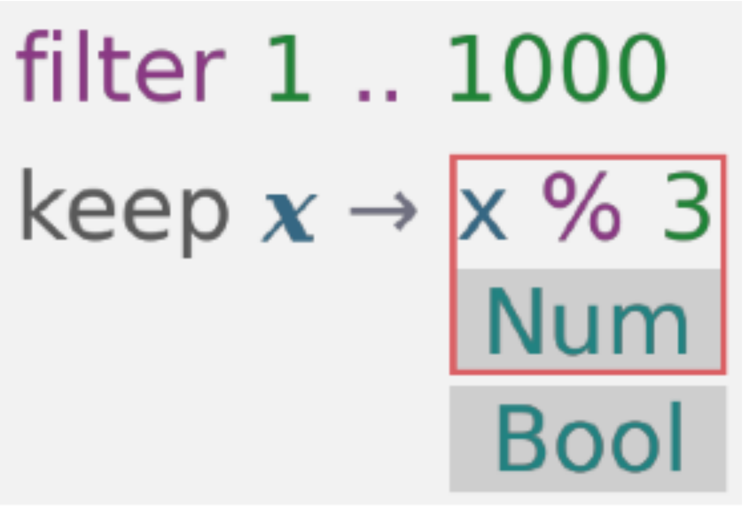


```
In file included from /usr/include/c++/4.6/algorithm:63:0,
                 from error_code.cpp:2:
/usr/include/c++/4.6/bits/stl_algo.h: In function ‘_RandomAccessIterator std::__find(_RandomAccessIterator, _RandomAccessIterator, const _Tp&,
std::random_access_iterator_tag) [with _RandomAccessIterator = __gnu_cxx::__normal_iterator*, std::vector > >, _Tp = int]’:
/usr/include/c++/4.6/bits/stl_algo.h:4403:45:   instantiated from ‘_IIter std::find(_IIter, _IIter, const _Tp&) [with _IIter = __gnu_cxx::__normal_iterator*,
std::vector > >, _Tp = int]’
error_code.cpp:8:89:   instantiated from here
/usr/include/c++/4.6/bits/stl_algo.h:162:4: error: no match for ‘operator==’ in ‘__first.__gnu_cxx::__normal_iterator::operator* [with _Iterator = std::vecto *,
_Container = std::vector >, __gnu_cxx::__normal_iterator::reference = std::vector&]() == __val’
/usr/include/c++/4.6/bits/stl_algo.h:162:4: note: candidates are:
/usr/include/c++/4.6/bits/stl_pair.h:201:5: note: template bool std::operator==(const std::pair&, const std::pair&)
/usr/include/c++/4.6/bits/stl_iterator.h:285:5: note: template bool std::operator==(const std::reverse_iterator&, const std::reverse_iterator&)
```

A snippet from a long C++ type error (from https://codegolf.stackexchange.com/a/10470)

Type *Mismatches*

When creating an expression in a place where its type doesn't match, a fragment is created. The red frame indicates a type mismatch, with the fragment type and expected type both displayed.



```
filter 1 .. 1000
keep x → x % 3
         Num
         Bool
```