Type Errors

adds verbosity and requires deciphering complicated type errors.

Static typing has many benefits, but usually it

```
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 = qnu 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 = qnu cxx:: normal iterator*,
std::vector > >. Tp = intl'
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. qnu cxx:: normal iterator::operator* [with Iterator = std::vector*,
Container = std::vector >. gnu cxx:: normal iterator::reference = std::vector&l() == 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&)

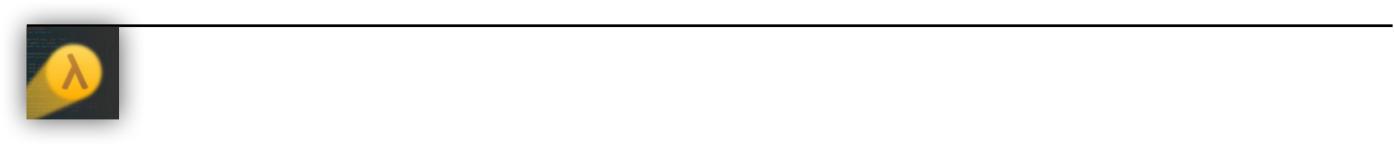
In file included from /usr/include/c++/4.6/algorithm:63:0.

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 $x \rightarrow x \% 3$ Num Bool







Blame Assignment

Traditionally compilers arbitrarily assign blame - often editing one piece of code results in an error somewhere seemingly unrelated.

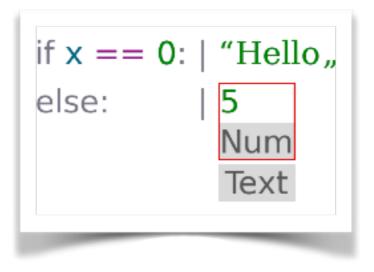




Lamdu uses the order in which code is written for to assign type mismatches to newly written code.



"Hello" typed first





5 typed first



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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
```