ONLINE TOOLS
EVERY C++
DEVELOPER
SHOULD KNOW



Thamara Andrade



HELLO!

I am Thamara Andrade (she/her)

Lead Software Engineer @ Cadence



@thamyk



https://thamara.dev



VERY IMPATIENT

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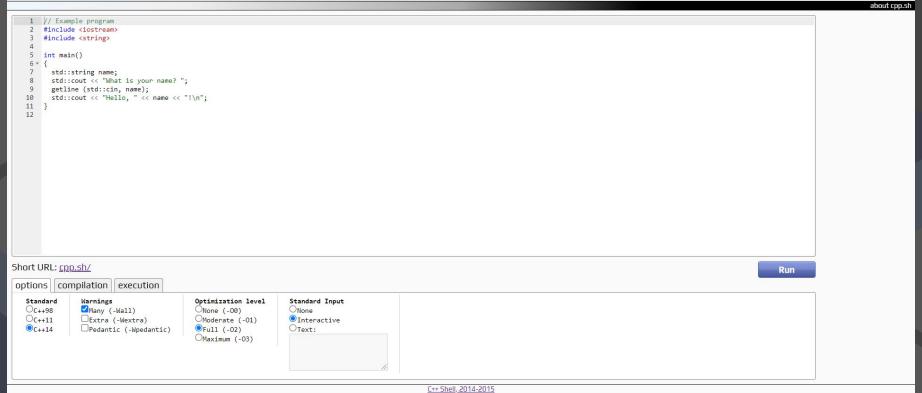


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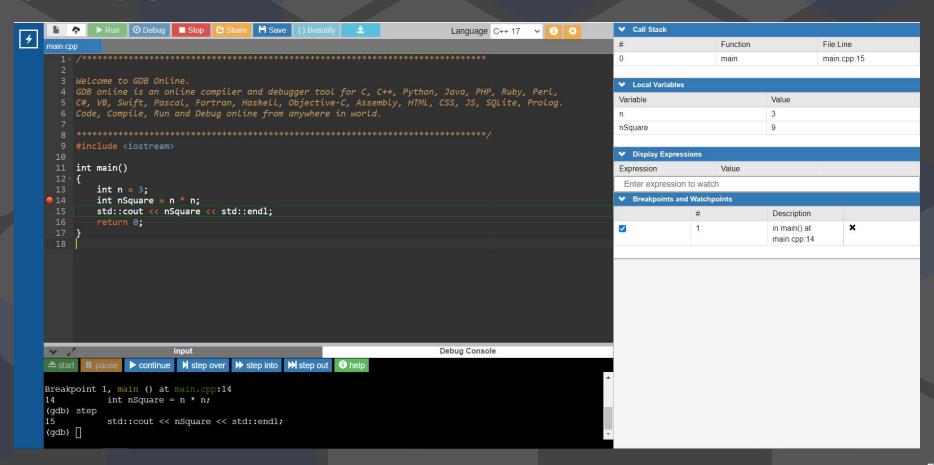
C++ Shell

C++ shell





Online GDB

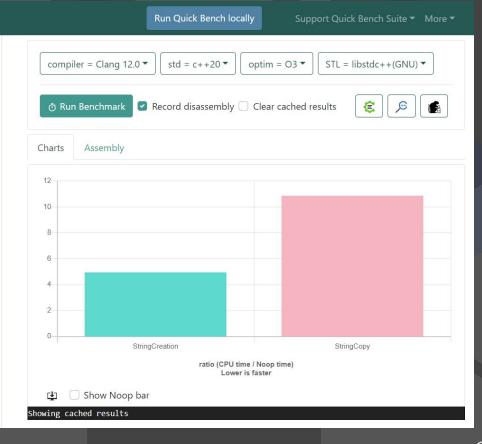


http://quick-bench.com

Quick C++ Benchmark

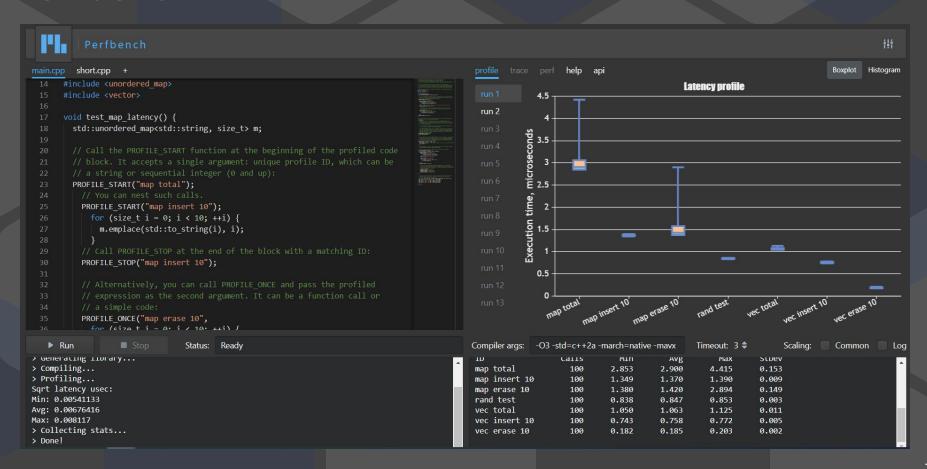
```
    ★ Quick C++ Benchmark

       static void StringCreation(benchmark::State& state) {
         // Code inside this loop is measured repeatedly
         for (auto : state) {
           std::string created string("hello");
           // Make sure the variable is not optimized away by compiler
           benchmark::DoNotOptimize(created string);
        // Register the function as a benchmark
       BENCHMARK(StringCreation);
       static void StringCopy(benchmark::State& state) {
         // Code before the loop is not measured
  13
         std::string x = "hello";
  14
         for (auto _ : state) {
  15
           std::string copy(x);
  16
  17
  18
       BENCHMARK(StringCopy);
```



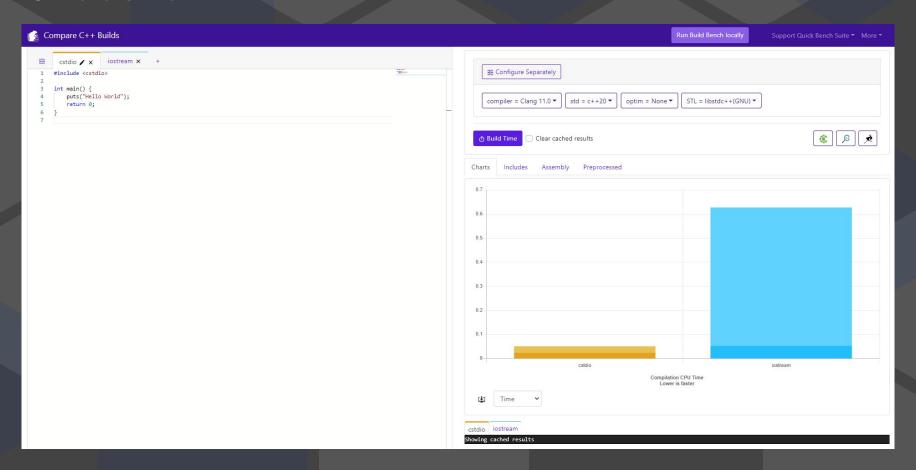
http://perfbench.com

Perfbench



http://build-bench.com

Buildbench



http://cppinsights.io

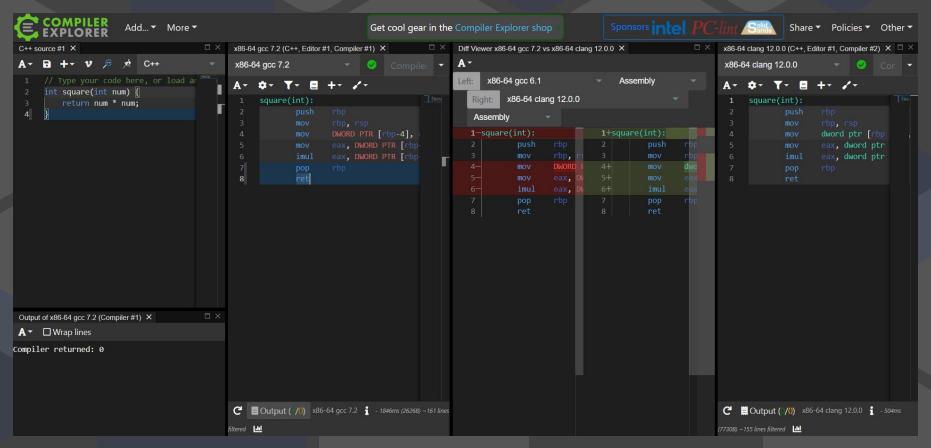
CPP Insights

Insights exited with result code: 0

```
Made by Andreas Fertig
                                                           [C++ Standard: C++ 17]
                                                                                                                                                                                         Powered by Flask and CodeMirror
                                                                                                          Insight:
Source:
  1 int main()
                                                                                                             2 {
  4 auto x = [](auto x) { return x * x; };
  7 x(3.0); // double
                                                                                                                   inline /*constexpr */ auto operator()(type_parameter_0_0 x) const
  8 }
                                                                                                                   #ifdef INSIGHTS_USE_TEMPLATE
                                                                                                                   inline /*constexpr */ int operator()(int x) const
                                                                                                                     return x * x;
                                                                                                                   inline /*constexpr */ double operator()(double x) const
Console:
```

http://godbolt.org

Compiler Explorer (Godbolt)





THANKS!





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