Code Completion in ClangRepl

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Problems
clang-repl> struct WhateverMeaningfulLooooooooooongName{ int field;};
clang-repl> WHAT??

Solutions:
1. Type everything
2. Copy ‘n’ paste
3. ?
Code Completion
clang-repl> struct WhateverMeaningfulLoooooooongName{ int field;};
clang-repl> Wh<tab>
struct WhateverMeaningfulLoooooooooongName{ int field;};

struct Whale{ std::string family;};
struct WhateverMeaningfulLongName{ int field;};
WhateverMeaningfulLongName

struct Whale{ std::string family;};
Whale
WhateverMeaningfulLongName
Semantic Code Completion
clang-repl> struct Apple{ int price;};
clang-repl> struct Banana{ int StoreID;};
clang-repl> void getApple(Apple &a) {};

clang-repl> Apple f1(10);
clang-repl> Banana f2(42);
clang-repl> getApple(f<tab>
```cpp
clang-repl> struct Apple{ int price;};
clang-repl> struct Banana{ int StoreID;};
clang-repl> void getApple(Apple &a) {};

clang-repl> Apple f1(10);
clang-repl> Banana f2(42);
clang-repl> getApple(f
f1
f2
```
```cpp
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clang-repl> struct Banana{ int StoreID;};
clang-repl> void getApple(Apple &a) {};

clang-repl> Apple f1(10);
clang-repl> Banana f2(42);
clang-repl> getApple(f<tab>
```
struct Apple { int price; }
struct Banana { int StoreID; }
void getApple(Apple &a) {}

Apple f1(10);
Banana f2(42);
getApple(f1
Q & A