```
Source: foo_f.cpp
1 // $Id: foo_f.cpp, v 1.1 2013-08-08 17:42:42-07 - - $
   3 #include <iostream>
   4 using namespace std;
   6 #define T(X) cout << __func__ << "[" << __LINE__ << "]: " << X
   7
     #define U(X) T(#X) << endl; X</pre>
   8
   9
  10
     #define D(X,Y) X { T(#X) << " " << this << endl; Y; }</pre>
  11
  12 struct foo {
  13
       D(foo(),)
  14
       D(~foo(),)
  15
       D(foo (const foo &),)
       D(foo (foo &&),)
  16
  17
       D(foo &operator= (const foo &), return *this)
  18
       D(foo &operator= (foo &&),return *this)
  19
     };
  20
  21
     foo f() {
  22
       U()
  23
       U(foo g;)
  24
       U(return g;)
  25
     }
  26
  27 int main() {
       U(foo h;)
  28
  29
       U(h = f();)
  30
       U(return 0;)
  31 }
Output: ./foo_f 2>&1
1 main[28]: foo h;
   2 foo[13]: foo() 0x7fff44c9359e
   3 main[29]: h = f();
   4 f[22]:
   5 f[23]: foo g;
   6 foo[13]: foo() 0x7fff44c9359f
     f[24]: return g;
   7
   8 operator=[18]: foo &operator= (foo &&) 0x7fff44c9359e
   9 ~foo[14]: ~foo() 0x7fff44c9359f
  10 main[30]: return 0;
     ~foo[14]: ~foo() 0x7fff44c9359e
pstatus: 0x0000 EXIT STATUS = 0
```