Why doesn't overloading work for derived classes?

eenshot stion (in many variations) are usually prompted by an example like this:

```
#include<iostream>
        using namespace std;
        class B {
        public:
                 int f(int i) { cout << "f(int): "; return i+1; }</pre>
        };
        class D : public B {
        public:
                 double f(double d) { cout << "f(double): "; return d+1.3; }</pre>
        };
        int main()
                 D* pd = new D;
                 cout << pd->f(2) << '\n';
                 cout << pd->f(2.3) << '\n';
which will produce:
        f(double): 3.3
        f(double): 3.6
rather than the
        f(int): 3
        f(double): 3.6
```

that some people (wrongly) guessed.

In other words, there is no overload resolution between D and B. The compiler looks into the scope of D, finds the single function "double f(double)" and calls it. It never bothers with the (enclosing) scope of B. In C++, there is no overloading across scopes - derived class scopes are not an exception to this general rule. (See $\underline{D\&E}$ or $\underline{TC++PL3}$ for details).

But what if I want to create an overload set of all my f() functions from my base and derived class? That's easily done using a using-declaration:

Give that modification, the output will be