
Subject: inheritance in C++ important question

Posted by [Anonymous Poster](#) on Mon, 16 Mar 2009 13:09:28 GMT

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Hi,

what I stated in my last reply in this thread about virtual in C++ turns out to be true. Please compile and run the following snippet

```
//-----  
#include<iostream>  
  
class A{  
public:  
    virtual void doit(){std::cout<<"A"<<std::endl;}  
};  
class B : public A{  
public:  
    void doit(){std::cout<<"B"<<std::endl;}  
};  
class C{  
public:  
    void doit(){std::cout<<"C"<<std::endl;}  
};  
class D : public C{  
public:  
    void doit(){std::cout<<"D"<<std::endl;}  
};  
  
int main(){  
    A* x = new B;  
    C* y = new D;  
    x->doit();  
    y->doit();  
    ((D*)y)->doit();  
}  
//-----
```

It prints

B
C
D

and the compiler gives no warning, also not with -Wall -pedantic. Does anybody know how I can force the compiler to not allow the overwriting at all, like in the case of class D where I (one could mistakenly think) overwrite the method?

Please help a C++ fool!

Cheers, Christian
