EXAMPLE 61: UNDERSTAND HOW NAME HIDING WORKS (AND WHY IT IS A PROBLEM)

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```
class Shape BASE CLASS
 void printNumber(int number)
    cout << "I am a shape - printing number" << number << endl;</pre>
class Rectangle: public Shape 7 EX VET CLASS
 void printNumber()
   cout << "I am a rectangle - printing number" << endl;</pre>
```

EXAMPLE 60: UNDERSTAND HOW NAME HIDING WORKS (AND WHY IT IS A PROBLEM)

```
BASE BLASS
    void printNumber(int number)
      cout << "I am a shape - printing number" << number << endl;</pre>
                                 SAME FUNCTION, BUT
                                DIFFERENT SIGNATURES
Mas Viertabel A. Signature Shape
    void printNumber()
     cout << "I am a rectangle - printing number < Rendl," THIS
```

BASE CLASS

PERIVEP CLASS

SAME FUNCTION, BUT DIFFERENT SIGNATURES

PONT EVER PO THIS

BECAUSE THE BASE CLASS NAME GETS ENTIRELY "HIPPEN"

DERIVED CLASS

SAME FUNCTION, BUT DIFFERENT SIGNATURES

PONT EVER PO THIS

BECAUSE THE BASE CLASS NAME GETS ENTIRELY "HIPPEN"

```
Rectangle r;
r.printNumber(); // works OK
r.printNumber(10); // unexpected compile error!
```

APPING THE SCOPE RESOLUTION OPERATOR WILL UNHIPE IT

```
Rectangle r;
r.printNumber(); // works OK
r.Shape::printNumber(10); // works OK now
```

BUT JUST NEVER "HIPE NAMES" LIKE THIS. ITS JUST WEIRD.