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package inter01;

public class Int1 {

    public static void main (String arg[]){
        byte bb=1 ; short p=2 ; int n=3 ; long q=4 ;
        float x=5.f ; double y=6. ;

        System.out.println ("** A ** ") ;
        A a = new A() ; a.f(bb) ; a.f(x) ;
        System.out.println ("** B ** ") ;
        B b = new B() ; b.f(bb) ; b.f(x) ;
        System.out.println ("** C ** ") ;
        C c = new C() ; c.f(bb) ; c.f(q) ; c.f(x) ;
        System.out.println ("** D ** ") ;
        D d = new D() ; d.f(bb) ; d.f(q) ; d.f(y) ;
        System.out.println ("** F ** ") ;
        F f = new F() ; f.f(bb) ; f.f(n) ; f.f(x) ; f.f(y) ;

        a = f ; a.f(bb) ; a.f(n) ; a.f(x) ; a.f(y) ;
        c = f ; c.f(bb) ; c.f(n) ; c.f(x) ; c.f(y) ;

        f.f(n,bb);
        c.f(n,bb);

        ((F)d).f(n,bb);
        ((C)f).f(n,bb);
        ((C)f).f(n);
        ((C)f).f(x);
    }
}

class A{
    public void f(double x) { System.out.println ("A.f(double=" + x + ") ") ; }
}

class B extends A {
    public void f(int q) { System.out.println ("B.f(int=" + q + ") ") ; }
}

class C extends A{
    public void f(long q) { System.out.println ("C.f(long=" + q + ") ") ; }
    public void f(float x, int n) { System.out.println ("C.f(float="+ x +", int=" +
n+"") )};}
}

class D extends C{
    public void f(int n) { System.out.println ("D.f(int=" + n + ") ") ; }
}

class F extends C{
    public void f(double x) { System.out.println ("F.f(double=" + x + ") ") ; }
    public void f(int n) { System.out.println ("F.f(int=" + n + ") ") ; }
    public void f(int n, float x) { System.out.println ("F.f(int=" + n +", float="+ x
+"")");}
}

```