```
package intero2;

public class Int2 {

      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(x) ; a.f(y) ;
            System.out.println ("** B ** ") ;
            B b = new B() ; b.f(bb) ; b.f(n) ;
            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) ; d.f(x, n);
            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(double x, int n) { System.out.println ("C.f(double="+ x +", int=" +
n+")" );}
}

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

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