class A

{

int i;

}

class B extends A

{

int j;

public static void main(String[] args)

{

B b1 = new B();

System.out.println(b1.i);

System.out.println(b1.j);

}

}

**OUTPUT:**

**0**

**0**

class C

{

void test1()

{

System.out.println("C.test1()");

}

}

class D extends C

{

void test2()

{

System.out.println("D.test2()");

}

public static void main(String[] args)

{

D d1 = new D();

d1.test1();

d1.test2();

System.out.println("done");

}

}

**OUTPUT:**

C.test1()

D.test2()

done

class E

{

static int i = 20;

}

class F extends E

{

static int j = 40;

public static void main(String[] args)

{

System.out.println(F.i);

System.out.println(F.j);

}

}

**OUTPUT:**

20

40

class G

{

static void test1()

{

System.out.println("G.test1()");

}

}

class H extends G

{

static void test2()

{

System.out.println("H.test2()");

}

public static void main(String[] args)

{

H.test1();

System.out.println("------------");

H.test2();

System.out.println("------------");

}

}

**OUTPUT:**

G.test1()

------------

H.test2()

------------

class I

{

int p;

static int q;

void test3()

{

System.out.println("I.test3()");

}

static void test4()

{

System.out.println("I.test4()");

}

}

class J extends I

{

public static void main(String[] args)

{

J obj = new J();

System.out.println(obj.p);

System.out.println(obj.q);

System.out.println(obj.p);

System.out.println(obj.q);

obj.test3();

obj.test4();

obj.test3();

obj.test4();

}

}

**OUTPUT:**

0

0

0

0

I.test3()

I.test4()

I.test3()

I.test4()

class K extends Object

{

K()

{

super();

System.out.println("K()");

}

}

class L extends K

{

L()

{

super();

System.out.println("L()");

}

public static void main(String[] args)

{

L l1 = new L();

System.out.println("done");

}

}

**OUTPUT:**

K()

L()

done

class M

{

M(int i)

{

}

}

class N extends M

{

public static void main(String[] args)

{

System.out.println("done");

}

}

**OUTPUT:**

class N extends M

^

required: int

found: no arguments

reason: actual and formal argument lists differ in length

1 error

class N

{

N(int i)

{

}

}

class O extends N

{

O()

{

super(10);

}

public static void main(String[] args)

{

System.out.println("done");

}

}

**OUTPUT:**

done

class P

{

P(int i)

{

System.out.println("P(int)");

}

}

class Q extends P

{

Q()

{

super(10);

System.out.println("Q()");

}

Q(int i)

{

super(10);

System.out.println("Q(int)");

}

public static void main(String[] args)

{

Q q1 = new Q();

System.out.println("---------");

Q q2 = new Q(90);

}

}

**OUTPUT:**

P(int)

Q()

---------

P(int)

Q(int)

class R

{

R()

{

System.out.println("R()");

}

R(int i)

{

System.out.println("R(int)");

}

}

class S extends R

{

S()

{

System.out.println("S()");

}

S(int i)

{

System.out.println("S(int)");

}

public static void main(String[] args)

{

S s1 = new S();

System.out.println("-----------");

S s2 = new S(90);

}

}

**OUTPUT:**

R()

S()

-----------

R()

S(int)

class T

{

T()

{

System.out.println("T()");

}

{

System.out.println("T-IIB");

}

}

class U extends T

{

U()

{

System.out.println("U()");

}

{

System.out.println("U-IIB");

}

public static void main(String[] args)

{

T t1 = new T();

System.out.println("----------");

U u1 = new U();

}

}

**OUTPUT:**

T-IIB

T()

----------

T-IIB

T()

U-IIB

U()

class V

{

V()

{

System.out.println("V()");

}

{

System.out.println("V-IIB");

}

}

class W extends V

{

W()

{

System.out.println("W()");

}

{

System.out.println("W-IIB");

}

public static void main(String[] args)

{

T t1 = new T();

System.out.println("----------");

U u1 = new U();

}

}

**OUTPUT:**

T-IIB

T()

----------

T-IIB

T()

U-IIB

U()

class V

{

V()

{

System.out.println("V()");

}

{

System.out.println("V-IIB");

}

}

class W extends V

{

W()

{

System.out.println("W()");

}

{

System.out.println("W-IIB");

}

}

class X extends W

{

X()

{

System.out.println("X()");

}

{

System.out.println("X-IIB");

}

public static void main(String[] args)

{

V v1 = new V();

System.out.println("----------");

W w1 = new W();

System.out.println("----------");

X x1 = new X();

}

}

**OUTPUT:**

V-IIB

V()

----------

V-IIB

V()

W-IIB

W()

----------

V-IIB

V()

W-IIB

W()

X-IIB

X()

class Y

{

{

System.out.println("Y-IIB");

}

Y()

{

this(10);

System.out.println("Y()");

}

Y(int i)

{

System.out.println("Y(int)");

}

public static void main(String[] args)

{

Y y1 = new Y();

System.out.println("done");

Y y2 = new Y(23);

}

}

**OUTPUT:**

Y-IIB

Y(int)

Y()

done

Y-IIB

Y(int)

class Z

{

{

System.out.println("Z-IIB");

}

Z()

{

System.out.println("Y()");

this(10);

}

Z(int i)

{

System.out.println("Z(int)");

}

public static void main(String[] args)

{

Z z1 = new Z();

System.out.println("done");

Z z2 = new Z(23);

}

}

**OUTPUT:**

Z.java:10: error: call to this must be first statement in constructor

this(10);

^

1 error