**Unary operator**

public class A1 {

public static void main(String[] args) {

int i = 0;

System.out.println(i++);

System.out.println(i);

}

}

class B1 {

public static void main(String[] args) {

int i = 1;

i++;

// i++;

// i=i+1;

// i=1+1=2 after calculating the value of in the rhs the value is assigning to i

System.out.println(i);

System.out.println(i++);

System.out.println(i);

}

}

class B {

public static void main(String[] args) {

int i = -1;

System.out.println(i--);// -1

System.out.println(i);//

// i--;

// i=i-1;

// i=-1-1=-2 after calculating the value of in the rhs the value is assingh to i

}

}

class B2 {

public static void main(String[] args) {

int i = 1;

int j = i++;// first it assign the value of i into the j;

// i++;

// i=i+1;

// i=1+1=2 after calculating the value of in the rhs the value is assign to i

System.out.println(i);

System.out.println(j);

System.out.println(i++);

System.out.println(i);

}

}

class C {

public static void main(String[] args) {

int i = 0;

// int j=i++;

int j = i++;

// first i assign the previous value (0) to the j then, i value is increased by

// 1 and

// using that value for printing purpose

System.out.println("i=" + i);

System.out.println("j=" + j);

}

}

class D {

public static void main(String[] args) {

int i = 0;

int j = i--;

System.out.println(i);

System.out.println(j);

}

}

class E {

public static void main(String[] args) {

int i = 0;

int j = i++ + i;

System.out.println(i);

System.out.println(j);

}

}

class F {

public static void main(String[] args) {

int i = 0;

int j = i++ + i + i++ + i;

System.out.println(i);

System.out.println(j);

}

}

class G {

public static void main(String[] args) {

int i = 0;

int j = i++ + i++ + i++ + i;

System.out.println(i);

System.out.println(j);

}

}

class H {

public static void main(String[] args) {

int i = 0;

int j = i-- + i + i-- + i;

System.out.println(i);

System.out.println(j);

}

}

class I {

public static void main(String[] args) {

int x = 0;

int y = x-- + x-- + x-- + x;

System.out.println(x);

System.out.println(y);

}

}

class K {

public static void main(String[] args) {

int i = 0;

int j = i++ + i-- + i++ + i--;

System.out.println(i);

System.out.println(j);

}

}

class J {

public static void main(String[] args) {

int x = 0;

int y = x++ + x + x-- + x;

System.out.println(x);

System.out.println(y);

}

}

class L {

public static void main(String[] args) {

int i = 0;

int j = i++ + i + i-- + i;

System.out.println(i);

System.out.println(j);

}

}

class M {

public static void main(String[] args) {

int i = 0;

System.out.println(++i);

}

}

class N {

public static void main(String[] args) {

int i = 0;

System.out.println(--i);

}

}

class O {

public static void main(String[] args) {

int i = 0;

int j = ++i;

System.out.println(i);

System.out.println(j);

}

}

class P {

public static void main(String[] args) {

int i = 0;

int j = --i;

System.out.println(i);

System.out.println(j);

}

}

class Q {

public static void main(String[] args) {

int i = 0;

int j = ++i + i;

System.out.println(i);

System.out.println(j);

}

}

class R {

public static void main(String[] args) {

int i = 0;

int j = --i + i + --i + i;

System.out.println(i);

System.out.println(j);

}

}

class A {

public static void main(String[] args) {

int i = 0;

i++;

System.out.println(i++);

System.out.println(i);

}

}

class T {

public static void main(String[] args) {

int i = 0;

int j = --i + --i + --i + i;

System.out.println(i);

System.out.println(j);

}

}

class U {

public static void main(String[] args) {

int i = 0;

int j = i++ + i + i-- + i + ++i + i;

System.out.println(i);

System.out.println(j);

}

}

class Y {

public static void main(String[] args) {

int i = 0;

--i;

System.out.println(i);

}

}

class V {

public static void main(String[] args) {

int i = 0;

i++;

System.out.println(i);

}

}

class W {

public static void main(String[] args) {

int i = 0;

i--;

System.out.println(i);

}

}

class Z {

public static void main(String[] args)

{

int i=0;

int j=--i +--i + --i +i;

-1/-1 -2/-2 -3/-3 -3

System.out.println(i);

System.out.println(j);

}

}

class X {

public static void main(String[] args) {

int i = 0;

++i;

System.out.println(i);

}

}

**Methods**

**public** **class** A {

**public** **static** **void** main(String[] args) {

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

}

**public** **static** **void** test() {

System.***out***.println("from test");

}

}

**public** **class** B {

**public** **static** **void** test() {

System.***out***.println("from test");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

}

}

**public** **class** C {

**public** **static** **void** test1() {

System.***out***.println("from test");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

System.***out***.println("Hello world");

}

**public** **static** **void** test2() {

System.***out***.println("from test");

}

}

**public** **class** D {

**static** **void** test() {

System.***out***.println("test");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test*();

System.***out***.println("main end");

}

}

**public** **class** E {

**public** **static** **void** test1() {

System.***out***.println("from test1");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test1*();

*test2*();

System.***out***.println("main end");

}

**static** **void** test2() {

System.***out***.println("from test2");

}

}

**public** **class** F {

**public** **static** **void** test1() {

System.***out***.println("from test1");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test1*();

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

*test1*();

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

System.***out***.println("main end");

}

}

**public** **class** G {

**static** **void** test1() {

System.***out***.println("from test1");

}

**static** **void** test2() {

System.***out***.println("test2 begin");

*test1*();

System.***out***.println("test2 end");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test1*();

*test2*();

System.***out***.println("main end");

}

}

**public** **class** H {

**public** **static** **void** test() {

System.***out***.println("from test1");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("from main");

*test*();

}

}

**class** I {

**public** **static** **void** main(String[] args) {

System.***out***.println("hello world");

// test();

}

}

**public** **class** K {

**static** **void** test() {

System.***out***.println("from test");

System.***out***.println("from test");

}

**public** **static** **void** main(String[] args) {

*test*();

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

*test*();

*test*();

}

}

**class** L {

**static** **void** test() {

System.***out***.println("from test begin");

System.***out***.println("from test end");

**return**;

}

**public** **static** **void** main(String[] args) {

*test*();

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

*test*();

}

}

**public** **class** M {

**static** **void** test() {

System.***out***.println("test begin");

**if** (**false**) {

System.***out***.println("from if");

**return**;

}

System.***out***.println("test end");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test*();

System.***out***.println("main end");

}

}

**public** **class** N {

**static** **void** test() {

System.***out***.println("test begin");

**return**;

}

**public** **static** **void** main(String[] args) {

*test*();

System.***out***.println("hello world");

}

}

**public** **class** O {

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

System.***out***.println("main end");

**return**

}

}

**public** **class** P {

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

**if** (100 == 109) {

System.***out***.println("from if");

**return**;

}

System.***out***.println("main end

}

}

**public** **class** Q {

**public** **static** **void** main(String[] args) {

**if** (**false**) {

**return**;

// System.out.println("hello world");

// unreachable statment.

}

System.***out***.println("from end");

}

}

**public** **class** R {

**static** **int** test() {

System.***out***.println("from test");

**return** 1

}

**public** **static** **void** main(String[] args) {

System.***out***.println("from main");

System.***out***.println(*test*());

**int** x = *test*();

System.***out***.println(x);

}

}

**public** **class** T {

**static** **int** test() {

System.***out***.println("from test");

**return** 10;

}

**public** **static** **void** main(String[] args) {

**int** i = *test*();

**int** j = 10 + *test*();

System.***out***.println(*test*());

System.***out***.println(i);

System.***out***.println(j);

System.***out***.println(i + j + *test*());

}

}

**public** **class** U {

**static** **int** test() {

System.***out***.println("from test");

**return** 20;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test*();

System.***out***.println("main end");

}

}

**public** **class** V {

**static** **void** test() {

System.***out***.println("from test");

}

**public** **static** **void** main(String[] args) {

// System.out.println(test());

}

}

**public** **class** W {

// static void test()

**static** **int** test() {

System.***out***.println("from test");

**return** 0;// remove the return then check.

}

**public** **static** **void** main(String[] args) {

**int** i = 10 + *test*();// test() return some value but test() is void type

System.***out***.println(i);

}

}

**public** **class** X {

**static** **int** test() {

**int** i = 10;

**return** i;

}

**public** **static** **void** main(String[] args) {

*test*();

System.***out***.println(*test*());

System.***out***.println(*test*() + *test*());

}

}

**public** **class** Y {

**static** **int** test1() {

System.***out***.println("from test1");

**return** 100;

}

**static** **int** test2() {

System.***out***.println("from test2");

**return** *test1*();

}

**public** **static** **void** main(String[] args) {

*test1*();

System.***out***.println(*test2*());

System.***out***.println(*test2*() + *test1*());

*test2*();

}

}

**public** **class** S {

**static** **int** test() {

System.***out***.println("from test");

**return** 20;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("from main begin");

**int** i = *test*();

System.***out***.println(i);

System.***out***.println("from main eng");

}

}

**public** **class** Z {

**static** **int** test1() {

System.***out***.println("from test1");

**return** 10;

}

**static** **int** test2() {

System.***out***.println("from test2");

**return** *test1*();

}

**static** **int** test3() {

System.***out***.println("from test3");

**return** *test1*() + *test2*();

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*test1*());

System.***out***.println(*test2*());

System.***out***.println(*test3*());

}

}

**public** **class** ZA {

**static** **void** test(**int** i) {

System.***out***.println("from test");

System.***out***.println(i);

}

**public** **static** **void** main(String[] args) {

System.***out***.println("form main begin");

// test();

*test*(2);

System.***out***.println("from main end");

}

}

**public** **class** ZB {

**static** **void** test(**int** i) {

System.***out***.println("from test");

System.***out***.println(i);

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

*test*(10);

System.***out***.println("''''");

**int** k = 100;

*test*(k);

*test*(100);

System.***out***.println("main end");

}

}

**public** **class** ZC {

**static** **void** test(**int** i) {

System.***out***.println("from test:" + i);

}

**public** **static** **void** main(String[] args) {

*test*(100);

**int** k = 200;

*test*(k);

*test*(k + 300);

**int** m = 1;// remove the value of m i.e is 1;

*test*(m);

System.***out***.println("done");

}

}

**public** **class** ZD {

**static** **void** test(**int** i) {

System.***out***.println("from test:" + i);

}

**public** **static** **void** main(String[] args) {

**int** m;

*test*(m = 10);

System.***out***.println("done");

}

}

**public** **class** ZE {

**static** **void** test(**int** i, **int** j) {

System.***out***.println("i =" + i + ",j=" + j);

}

**public** **static** **void** main(String[] args) {

*test*(10, 20);

**int** i = 200;

*test*(i, 500);

*test*(200, i);

*test*(i, i);

System.***out***.println("done");

}

}

**public** **class** ZF {

**static** **void** test(**int** i) {

System.***out***.println("test:" + i);

i = 10;

}

**public** **static** **void** main(String[] args) {

**int** i = 20;

System.***out***.println("main begin:" + i);

*test*(i);

System.***out***.println("main end");

}

}

Method with Unary Operators

**public** **class** G {

**static** **void** test(**int** i) {

System.***out***.println("test:" + i++);

}

**public** **static** **void** main(String[] args) {

**int** i = 10;

*test*(i);

System.***out***.println("main: " + i);

}

}

**public** **class** H {

**static** **void** test(**int** i) {

System.***out***.println("test:" + i++);

System.***out***.println("test:" + i);

}

**public** **static** **void** main(String[] args) {

**int** i = 10;

*test*(i);

System.***out***.println("main:" + i);

}

}

**public** **class** I {

**static** **void** test(**boolean** flag, **int** x) {

System.***out***.println("form test");

System.***out***.println("flag");

System.***out***.println(x);

}

**public** **static** **void** main(String[] args) {

System.***out***.println("form main");

*test*(**true**, 20);

System.***out***.println("''''''''");

**boolean** f1 = **false**;

*test*(f1, 30);

}

}

**public** **class** J {

**static** **void** test(**double** d1, **char** c1) {

System.***out***.println("from test");

System.***out***.println("di");

System.***out***.println("c1");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("form mian");

*test*(90.9090, 'a');

**double** v1 = 89.0909;

**char** v2 = 's';

*test*(v1, v2);

}

}

**public** **class** K {

**static** **int** test() {

**int** i = 0;

**return** i++;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*test*());

System.***out***.println(*test*());

System.***out***.println(*test*());

System.***out***.println(*test*());

}

}

**public** **class** L {

**static** **int** test() {

**int** i = 0;

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*());

System.***out***.println(i);

}

}

**public** **class** M {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*(i));

System.***out***.println(i);

}

}

**public** **class** N {

**static** **int** test(**int** i) {

**return** i--;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(i);

System.***out***.println(*test*(i));

System.***out***.println(i);

i = *test*(i);

System.***out***.println(i);

}

}

**public** **class** O {

**static** **int** test(**int** i) {

**return** ++i;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*(i));

System.***out***.println(i);

}

}

**public** **class** P {

**static** **int** test(**int** i) {

**return** --i;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*test*(9));

**int** i = 0;

System.***out***.println(*test*(i));

System.***out***.println(i);

}

}

**public** **class** Q {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*(i++));

System.***out***.println(i);

}

}

**public** **class** R {

**static** **int** test(**int** i) {

**return** i--;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*(i++));

System.***out***.println(i);

i = 0;

System.***out***.println(*test*(i--));

System.***out***.println(i);

}

}

**public** **class** S {

**static** **int** test(**int** i) {

**return** ++i;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(*test*(i++));

System.***out***.println(i);

i = 0;

System.***out***.println(*test*(i--));

System.***out***.println(i);

}

}

**public** **class** T {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(i);

i = *test*(i++);

System.***out***.println(i);

}

}

**public** **class** U {

**static** **int** test(**int** i) {

**return** i--;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

System.***out***.println(i);

i = *test*(i--);

System.***out***.println(i);

}

}

**public** **class** V {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

**int** j = *test*(i++) + i;

System.***out***.println(i);

System.***out***.println(j);

}

}

**public** **class** W {

**static** **int** test(**int** i) {

**return** ++i;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

**int** j = *test*(i++) + i + *test*(++i);

System.***out***.println(i);

System.***out***.println(j);

}

}

**public** **class** X {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

**int** j = i++ + i + *test*(i++) + ++i + *test*(i++) + i + --i + *test*(--i) + i + i + *test*(i--) + ++i;

System.***out***.println(i);

System.***out***.println(j);

}

}

**public** **class** Y {

**static** **int** test1(**int** i) {

**return** i++;

}

**static** **int** test2(**int** i) {

**return** ++i;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

**int** j = i++ + i + *test1*(i++) + i + ++i + i + *test1*(++i) + i + ++i + i + *test2*(++i) + i + i++ + i + *test2*(i++)

+ i;

System.***out***.println(i);

System.***out***.println(j);

}

}

**public** **class** Z {

**static** **int** test1(**int** i) {

**return** i++;

}

**static** **int** test2(**int** i) {

**return** *test1*(++i);

}

**static** **int** test3(**int** i) {

**return** *test1*(i++);

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

**int** j = *test1*(i++) + i;

System.***out***.println(i);

System.***out***.println(j);

i = j = 0;

j = *test1*(++i) + i;

System.***out***.println(i);

System.***out***.println(j);

i = j = 0;

j = *test2*(++i) + i;

System.***out***.println(i);

System.***out***.println(j);

i = j = 0;

j = *test3*(++i) + i;

System.***out***.println(i);

System.***out***.println(j);

i = j = 0;

j = *test3*(++i) + i + *test1*(i++) + i + *test2*(i++) + i + *test2*(++i) + i;

System.***out***.println(i);

System.***out***.println(j);

;

}

}

**public** **class** Z1 {

**static** **int** test(**int** i) {

**return** i++;

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

i = i++ + i + *test*(i++) + i;

System.***out***.println(i);

}

}

**public** **class** Z3 {

**static** **int** test1(**int** i) {

**return** *test2*(i++) + *test2*(++i);

}

**static** **int** test2(**int** i) {

**return** *test3*(i--) + *test3*(--i);

}

**static** **int** test3(**int** i) {

**return** i++ + ++i + i;

}

**public** **static** **void** main(String[] args) {

**int** i;

i = *test1*(i = 0);

System.***out***.println(i);

i = *test2*(i = 0);

System.***out***.println(i);

i = *test1*(i++);

System.***out***.println(i);

i = *test2*(++i);

System.***out***.println(i);

}

}

**public** **class** Z2 {

**static** **int** test1(**int** i) {

**return** ++i;

}

**static** **int** test2(**int** i) {

**return** *test1*(++i) + *test1*(i++);

}

**public** **static** **void** main(String[] args) {

**int** i = 0;

i = *test1*(i++) + i + *test2*(i++) + i + *test2*(++i) + i;

System.***out***.println(i);

}

}

Static Global variable

**public** **class** A {

**static** **int** *i*;// default value is zero;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

*i* = 100;

System.***out***.println(*i*);

*i* = 200;

System.***out***.println(*i*);

}

}

**public** **class** B {

**static** **int** *i*;

**static** **double** *j*;

**static** **boolean** *b*;

**static** **float** *f*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

System.***out***.println(*b*);

System.***out***.println(*f*);

}

}

**public** **class** C {

**static** **int** *i*;// declaration

**static** **int** *j* = 10;// j is called initializer

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** D {

**static** **int** *i*;

**static** **int** *j*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

*i* = 10;

*j* = 20;

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** E {

**static** **int** *i*, *j*, *k*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

System.***out***.println(*k*);

}

}

**public** **class** F {

**static** **int** *i*, *j* = 10, *k*, *m* = 20;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

System.***out***.println(*k*);

System.***out***.println(*m*);

}

}

**public** **class** G {

**static** **int** *i*;

**static** **double** *j*, *m* = 30.9, *k*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

System.***out***.println(*m*);

System.***out***.println(*k*);

}

}

**public** **class** H {

**static** **int** *i*;

**static** **void** test() {

System.***out***.println("FROM TEST :" + *i*);

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main:" + *i*);

*i* = 10;

*test*();

System.***out***.println("main:" + *i*);

}

}

**public** **class** I {

**static** **int** *i*;

**static** **void** test() {

System.***out***.println("FROM TEST :" + *i*);

*i* = 10;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main1:" + *i*);

*i* = 20;

*test*();

System.***out***.println("MAIN2:" + *i*);

}

}

**public** **class** J {

**static** **int** *i* = 0;

**static** **void** test1() {

System.***out***.println("TEST1 :" + *i*);

*i* = 1;

}

**static** **void** test2() {

System.***out***.println("test2:" + *i*);

*i* = 2;

}

**public** **static** **void** main(String[] args) {

*test1*();

System.***out***.println("main1:" + *i*);

*test2*();

System.***out***.println("main2:" + *i*);

}

}

**public** **class** K {

**static** **int** *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println("main1:" + *i*);

*i* = 10;

System.***out***.println("main2:" + *i*);

*i* = 20;

System.***out***.println("main3:" + *i*);

}

}

**public** **class** L {

**public** **static** **void** main(String[] args) {

**int** i = 0;

**double** j = 0.4;// i;

System.***out***.println("done");

}

}

**public** **class** M {

**static** **int** *i*;

**static** **boolean** *j*;// i

**public** **static** **void** main(String[] args) {

System.***out***.println(*j*);

System.***out***.println("done");

}

}

**class** Mix {

**static** **int** *i* = 10;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(Mix.*i*);

}

}

**public** **class** N {

**static** **int** *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);// s g v

**int** i = 20;// l v to main

System.***out***.println("value of i is:" + i);

System.***out***.println(N.*i*);

}

}

**public** **class** O {

**static** **int** *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(O.*i*);// optional

O.*i* = 10;

System.***out***.println(O.*i*);

}

}

**public** **class** P {

**static** **int** *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

*i* = 10;

// O.i=10;

System.***out***.println(P.*i*);

}

}

**public** **class** Q {

**static** **int** *i* = 10;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

**double** i = 2.9;

System.***out***.println(i);

System.***out***.println(Q.*i*);

}

}

**public** **class** R {

**static** **int** *i* = 10;

**static** **int** *j* = *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

/\*

\* uses of i is proper with forward reference i.e we are initializing the i

\* value to j

\*/

**public** **class** S {

**static** **int** *i* = 5;

**static** **int** *j* = *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**class** T {

**static** **int** *i* = 10;

**static** **int** *j* = 20;

**static** **int** *k* = *i* + *j*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

System.***out***.println(*k*);

}

}

**public** **class** U {

// static int i =j;//Cannot reference a field before it is defined

**static** **int** *j* = 10;

// java does not support the illegal forward reference

// static int j =10;

**public** **static** **void** main(String[] args) {

// System.out.println(i);

System.***out***.println(*j*);

}

}

**public** **class** V {

**static** **int** *i* = 10;

**static** **int** *j* = *i*;

// static int m = n;

// illegal forward reference varibel

**static** **int** *n* = *j*;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

// System.out.println(m);

System.***out***.println(*n*);

}

}

**public** **class** W {

**static** **int** *i* = 10;

**static** **int** *j* = *test*();

**static** **int** test() {

**return** 20;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** X {

**static** **int** test1() {

**return** 1;

}

**static** **int** *i* = *test1*() + *test2*();

**static** **int** test2() {

System.***out***.println("i->" + *i*);

**return** 2;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

}

}

**public** **class** Y {

**static** **int** *i* = 100;

**static** **int** *j* = *test*();// 100

**static** **int** test() {

**return** *i*;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** Z {

**static** **int** *i* = *test*();// 15

**static** **int** *j* = 15;

**static** **int** test() {

System.***out***.println("From test ->i" + *i*);

System.***out***.println("From test ->j" + *j*);

**return** *j*;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** Z1 {

**static** **int** *i* = *test*();

**static** **int** test() {

System.***out***.println("from test");

**return** 10;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main begin");

System.***out***.println(*i*);

System.***out***.println("main end");

}

}

**class** Z2 {

}

**public** **class** Z3 {

**static** **int** *i* = *test*();

**static** **int** test() {

System.***out***.println("from test");

**return** 10;

}

// public static void main(String[] args)

// {

//

// }

}

//ctrl+m

**class** Z4 {

**static** **int** *i* = *test1*();

**static** **int** test1() {

System.***out***.println("from test");

**return** 10;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

System.***out***.println(*test1*());

}

}

**public** **class** Z5 {

**static** **int** *i* = *test*();

**static** **int** test() {

System.***out***.println("from test1");

*main*(**null**);

**return** 10;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("from main");

System.***out***.println(*i*);

// test(); stack over flow exception

}

}

SIB

**public** **class** A {

**static** {

System.***out***.println("SIB");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main");

}

}

**public** **class** B {

**public** **static** **void** main(String[] args) {

System.***out***.println("main");

}

**static** {

System.***out***.println("SIB");

}

}

**public** **class** C {

**static** {

System.***out***.println("SIB1");

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main");

}

**static** {

System.***out***.println("SIB2");

}

}

**public** **class** D {

**static** **int** *i*;

**static** {

System.***out***.println("i->" + *i*);

*i* = 2;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

}

}

**public** **class** E {

**static** **int** *i* = 1;

**static** {

System.***out***.println("1-i>" + *i*);

*i* = 2;

System.***out***.println("2-i>" + *i*);

*i* = 100;

System.***out***.println("3-i>" + *i*);

}

**public** **static** **void** main(String[] args) {

System.***out***.println("4-i>" + *i*);

*i* = 10;

System.***out***.println(E.*i*);

}

}

**public** **class** F {

**static** **int** *j*;

**static** {

*i* = 50;

// System.out.println("static:->"+i);

// j=i;

}

**static** **int** *i*;// = 5;

**public** **static** **void** main(String[] args) {

System.***out***.println(*i*);

}

}

**public** **class** G {

**static** {

// System.out.println(i); //illegal forward reference

}

**static** **int** *i*;

**public** **static** **void** main(String[] args) {

System.***out***.println("done");

}

}

**public** **class** H {

**static** **int** *i*;

**static** **int** *j* = 100;

**static** {

*i* = *j*;

}

// static int j = 100;// illegal forward reference;

**public** **static** **void** main(String[] args) {

System.***out***.println("done");

System.***out***.println(*i*);

System.***out***.println(*j*);

}

}

**public** **class** I {

**static** {

System.***out***.println("sib1");

}

**static** **int** test() {

System.***out***.println("Test()-i-->" + *i*);

System.***out***.println("TEST");

**return** 10;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("done");

System.***out***.println(*i*);

}

**static** **int** *i* = *test*();

**static** {

System.***out***.println("sib2");

}

}

**public** **class** J {

**static** **int** *i* = *test*();

**static** {

System.***out***.println("sib begin:");

*main*(**null**);

System.***out***.println("sib end:");

}

**static** **int** test() {

System.***out***.println("test begin");

*main*(**null**);

System.***out***.println("test end");

**return** 20;

}

**public** **static** **void** main(String[] args) {

System.***out***.println("main " + *i*);

}

}

**public** **class** K {

**public** **static** **void** main(String[] args) {

Integer a1 = 127;

Integer a2 = 127;

**int** a3 = 128;

**int** a4 = 128;

Integer a5 = 12;

Integer a6 = 12;

System.***out***.println(a1 == a2);

System.***out***.println(a3 == a4);

System.***out***.println(a5 == a6);

System.***out***.println(128 == 128);

}

}

**class** Mix {

**public** **static** **void** main(String[] args) {

**int** i = 10;

System.***out***.println(i);

{

**int** y = 5;

System.***out***.println("y=" + y);

System.***out***.println("x=" + i);

}

System.***out***.println("outside block");

/// System.out.println(y);

}

}