**Example 38**

class N

{

static

{

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

}

public static void main(String[] args)

{

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

}

}

/\*

All intialisers excute while loading a class into the mem before main();top-down execution.

After the class is loaded main() is executes.

\*/

**output**

N.SIB

N.main

**Example 39**

class O

{

static

{

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

}

public static void main(String[] args)

{

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

}

static

{

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

}

}

**output**

O.SIB1

O.SIB2

O-main

**Example 40**

class P

{

static int i = test();

static

{

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

}

public static int test()

{

System.out.println("test");

return 69;

}

public static void main(String[] args)

{

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

}

}

**output**

test

P.SIB

P.main:69

**Example 41**

class Q

{

static int i = test();

static

{

System.out.println("SIB:" + i);

i = 10;

}

public static void main(String[] args)

{

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

}

public static int test()

{

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

return 69;

}

}

**output**

test:0

SIB:69

main:10

**Example 42**

class R

{

static int i = test();

static

{

System.out.println("SIB:" + i);

i = 10;

}

public static int test()

{

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

return 69;

}

public static void main(String[] args)

{

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

i = 33;

System.out.println(test());

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

}

}

**output**

test:0

SIB:69

main begin:10

test:33

69

main end:33

**Example 43**

class S

{

static int i = test();

public static int test()

{

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

i = 99;

main(null);

return 10;

}

public static void main(String[] args)

{

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

i = 33;

}

}

**output**

test:0

main:99

main:10

**Example 44**

class T

{

static int i = test();

static

{

System.out.println("SIB:" + i);

i = 99;

main(null);

System.out.println("SIBagain:" + i);

i = 10;

}

public static int test()

{

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

i = 43;

main(null);

System.out.println("testagain:" + i);

return 75;

}

public static void main(String[] args)

{

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

i = 33;

}

}

**output**

test:0

main:43

testagain:33

SIB:75

main:99

SIBagain:33

main:10

**Example 45**

class U

{

static int i = test1();

static int j = test2();

static

{

System.out.println("sib:" + "i:" + i + ", " + "j:" + j);

i += 1;

j += i;

main(null);

System.out.println("sibAgain:" + "i:" + i + "," + "j:" + j);

i += 2;

j += i;

}

public static int test1()

{

System.out.println("test1:" + "i:" + i + "," + "j:" + j);

i += 3;

j += i;

main(null);

System.out.println("test1Again:" + "i:" + i + "," + "j:" + j);

i += 4;

j += i;

return i + j + 5;

}

public static int test2()

{

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

i += 6;

j += i;

main(null);

System.out.println("test2Again:" + "i:" + i + "," + "j:" + j);

i += 7;

j += i;

return i + j + 8;

}

public static void main(String[] args)

{

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

i += 9;

j += i;

}

}

**output**

test1:i:0,j:0

main:3

test1Again:i:12,j:15

test2:i:52,j:31

main:58

test2Again:i:67,j:156

sib:i:74, j:312

main:75

sibAgain:i:84,j:471

main:86

**Example 46**

class V

{

public static void main(String[] args)

{

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

}

}

class W

{

public static void main(String[] args)

{

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

}

}

//this file can be saved with any name.

//specify which class to run as public.

//More than one public class is not allowed.