|  |  |
| --- | --- |
| **1.** | constructors are inheriting to sub class |
| |  | | --- | | A.  yes |  |  | | --- | | B.  no | | | |
|  | | |
| **2.** | initialzation blocks are inheriting to sub class |
| |  | | --- | | A.  yes |  |  | | --- | | B.  no | | | |
|  | | |

|  |  |  |
| --- | --- | --- |
| **3.** | super class constructor not inheriting to subclass. subclass constructor calling super class constructor. | |
| |  | | --- | | A.  yes |  |  | | --- | | B.  no | | | | |
|  | | | |
| **4.** | package src;  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);  }  } |
| |  | | --- | | A.  0  0 |  |  | | --- | | B.  Compilation Error |  |  | | --- | | C.  Run Time Error | | | | |
|  | | | |

|  |  |
| --- | --- |
| **5.** | package src;  class C  {  void test1()  {  System.out.println("from test1");  }  }  class D extends C  {  void test2()  {  System.out.println("from test2");  }  public static void main(String[] args)  {  D d1 = new D();  d1.test1();  d1.test2();  }  } |
| |  | | --- | | A.  from test1  from test2 |  |  | | --- | | B.  from test2  from test1 |  |  | | --- | | C.  Run Time Error |  |  | | --- | | D.  Compilation error | | | |
|  | | |
| **6.** | package src;  class E  {  static int i;  }  class F extends E  {  static int j;  public static void main(String[] args)  {  System.out.println(F.i);  System.out.println(F.j);  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  0  0 |  |  | | --- | | C.  Run Time Error | | | |
|  | | |

|  |  |
| --- | --- |
| **7.** | package src;  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();  H.test2();  }  } |
| |  | | --- | | A.  H-test1  G-test2 |  |  | | --- | | B.  G-test1  H-test2 |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  Runtime Error | | | |
|  | | |
| **8.** | package src;  class I  {  static int m;  int n;  static void test1()  {  System.out.println("from test1");  }  void test2()  {  System.out.println("from test2");  }  }  class J extends I  {  public static void main(String[] args)  {  System.out.println(J.m);  J.test1();  J ref = new J();  System.out.println(ref.n);  ref.test2();  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  from test1  0  from test2  0 |  |  | | --- | | C.  0  from test1  0  from test2 |  |  | | --- | | D.  Runtime Error | | | |
|  | | |

|  |  |  |
| --- | --- | --- |
| **9.** | package src;  class K  {  K()  {  super();  System.out.println("K()");  }  }  class L extends K  {  L()  {  super();  System.out.println("L()");  }  public static void main(String[] args)  {  L obj = new L();  }  } | |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  K()  L() |  |  | | --- | | C.  L()  K() | | | | |
|  | | | |
| **10.** | | package src;  class M  {  M()  {  System.out.println("M()");  }  }  class N extends M  {  N()  {  System.out.println("N()");  }  }  class O extends N  {  public static void main(String[] args)  {  M m1 = new M();  System.out.println("---------");  N n1 = new N();  System.out.println("---------");  O o1 = new O();  System.out.println("---------");  }  } |
| |  | | --- | | A.  M()  ---------  M()  N()  ---------  M()  N()  --------- |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  none | | | | |
|  | | | |

|  |  |
| --- | --- |
| **11.** | package src;  class A  {  A()  {  System.out.println("A()");  }  }  class B extends A  {  B()  {  System.out.println("B()");  }  }  class C extends B  {  C()  {  System.out.println("C()");  }  }  class P extends C  {  P()  {  System.out.println("P()");  }  public static void main(String[] args)  {  A a1 = new A();  System.out.println("---------");  B b1 = new B();  System.out.println("---------");  C c1 = new C();  System.out.println("---------");  P p1 = new P();  System.out.println("---------");  }  } |
| |  | | --- | | A.  ---------  ---------  ---------  P()  --------- |  |  | | --- | | B.  A()  ---------  A()  B()  ---------  A()  B()  C()  ---------  A()  B()  C()  P()  --------- |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  Runtime Error | | | |
|  | | |
| **12.** | class A  {  A()  {  System.out.println("A()");  }  A(int i)  {  System.out.println("A(int)");  }  }  class B extends A  {  B()  {  System.out.println("B()");  }  B(int i)  {  System.out.println("B(int)");  }  }  class C extends B  {  C()  {  System.out.println("C()");  }  C(int i)  {  super();  System.out.println("C(int)");  }  }  class Q extends C  {  Q()  {  System.out.println("Q()");  }  Q(int i)  {  super();  System.out.println("Q(int)");  }  public static void main(String[] args)  {  A a1 = new A();  System.out.println("---------");  B b1 = new B();  System.out.println("---------");  C c1 = new C();  System.out.println("---------");  Q q1 = new Q();  System.out.println("---------");  A a2 = new A(10);  System.out.println("---------");  B b2 = new B(10);  System.out.println("---------");  C c2 = new C(20);  System.out.println("---------");  Q q2 = new Q(30);  System.out.println("---------");  }  } |
| |  | | --- | | A.  A()  ---------  A()  B()  ---------  A()  B()  C()  ---------  A()  B()  C()  Q()  ---------  A(int)  ---------  A()  B(int)  ---------  A()  B()  C(int)  ---------  A()  B()  C()  Q(int)  --------- |  |  | | --- | | B.  A()  ---------  B()  ---------  C()  ---------  Q()  ---------  A(int)  ---------  A()  B(int)  ---------  A()  B()  C(int)  ---------  A()  B()  C()  Q(int)  --------- |  |  | | --- | | C.  A()  ---------  B()  ---------  C()  ---------  Q()  ---------  A(int)  ---------  B(int)  ---------  C(int)  ---------  Q(int)  --------- |  |  | | --- | | D.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **13.** | class A  {  A()  {  System.out.println("A()");  }  A(int i)  {  System.out.println("A(int)");  }  }  class B extends A  {  B()  {  super(10);  System.out.println("B()");  }  B(int i)  {  System.out.println("B(int)");  }  }  class C extends B  {  C()  {  System.out.println("C()");  }  C(int i)  {  super(i);  System.out.println("C(int)");  }  }  class R extends C  {  R()  {  super(20);  System.out.println("R()");  }  R(int i)  {  super(200);  System.out.println("R(int)");  }  public static void main(String[] args)  {  A a1 = new A();  System.out.println("---------");  B b1 = new B();  System.out.println("---------");  C c1 = new C();  System.out.println("---------");  R r1 = new R();  System.out.println("---------");  A a2 = new A(10);  System.out.println("---------");  B b2 = new B(10);  System.out.println("---------");  C c2 = new C(20);  System.out.println("---------");  R r2 = new R(30);  System.out.println("---------");  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  Runtime Error |  |  | | --- | | C.  A()  ---------  A(int)  B()  ---------  A(int)  B()  C()  ---------  A()  B(int)  C(int)  R()  ---------  A(int)  ---------  A()  B(int)  ---------  A()  B(int)  C(int)  ---------  --------- |  |  | | --- | | D.  A()  ---------  A(int)  B()  ---------  A(int)  B()  C()  ---------  A()  B(int)  C(int)  R()  ---------  A(int)  ---------  A()  B(int)  ---------  A()  B(int)  C(int)  ---------  A()  B(int)  C(int)  R(int)  --------- | | | |
|  | | |
| **14.** | class A  {  A()  {  System.out.println("A()");  }  A(int i)  {  this();  System.out.println("A(int)");  }  }  class B extends A  {  B()  {  super(10);  System.out.println("B()");  }  B(int i)  {  this();  System.out.println("B(int)");  }  }  class C extends B  {  C()  {  this(90);  System.out.println("C()");  }  C(int i)  {  super(i);  System.out.println("C(int)");  }  }  class S extends C  {  S()  {  this(90);  System.out.println("S()");  }  S(int i)  {  super(200);  System.out.println("S(int)");  }  public static void main(String[] args)  {  A a1 = new A();  System.out.println("---------");  B b1 = new B();  System.out.println("---------");  C c1 = new C();  System.out.println("---------");  S s1 = new S();  System.out.println("---------");  A a2 = new A(10);  System.out.println("---------");  B b2 = new B(10);  System.out.println("---------");  C c2 = new C(20);  System.out.println("---------");  S s2 = new S(30);  System.out.println("---------");  }  } |
| |  | | --- | | A.  A()  ---------  A()  A(int)  B()  ---------  A()  A(int)  B()  B(int)  C(int)  C()  ---------  A()  A(int)  B()  B(int)  C(int)  S(int)  S()  ---------  A()  A(int)  ---------  A()  A(int)  B()  B(int)  ---------  A()  A(int)  B()  B(int)  C(int)  ---------  A()  A(int)  B()  B(int)  C(int)  S(int)  --------- |  |  | | --- | | B.  A()  ---------  A()  A(int)  B()  ---------  A()  A(int)  B()  B(int)  C(int)  C()  ---------  A()  A(int)  B()  B(int)  C(int)  S(int)  S()  ---------  A()  A(int)  ---------  A()  A(int)  B()  B(int)  ---------  A()  A(int)  B()  B(int)  C(int)  ---------  --------- |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  Runtime Error | | | |
|  | | |

|  |  |
| --- | --- |
| **15.** | class A  {  A(int i)  {  System.out.println("A(int)");  }  }  class T extends A  {  T(int i)  {  System.out.println("T(int)");  }  public static void main(String[] args)  {  T t1 = new T(90);  System.out.println("done");  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  T(int)  done |  |  | | --- | | C.  A(int)  T(int) |  |  | | --- | | D.  None | | | |
|  | | |
| **16.** | class A  {  A(int i)  {  System.out.println("A(int)");  }  }  class U extends A  {  U(int i)  {  super(i);  System.out.println("U(int)");  }  public static void main(String[] args)  {  U u1 = new U(90);  System.out.println("done");  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  A(int)  U(int)  done |  |  | | --- | | C.  U(int)  A(int)  done |  |  | | --- | | D.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **17.** | class A  {  A()  {  System.out.println("A()");  }    {  System.out.println("A-IIB");  }  }  class V  {  public static void main(String[] args)  {  A a1 = new A();  System.out.println("----------");  A a2 = new A();  }  } |
| |  | | --- | | A.  A-IIB  A()  ----------  A-IIB  A() |  |  | | --- | | B.  A()  A-IIB  ----------  A()  A-IIB |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  Runtime Error | | | |
|  | | |
| **18.** | class A  {  A()  {  System.out.println("A()");  }    {  System.out.println("A-IIB");  }  }  class B extends A  {  B()  {  System.out.println("B()");  }    {  System.out.println("B-IIB1");  }  {  System.out.println("B-IIB2");  System.out.println("B-IIB2");  System.out.println("B-IIB2");  }  }  class W  {  public static void main(String[] args)  {  A a1 = new A();  System.out.println("----------");  A a2 = new A();  System.out.println("----------");  B b1 = new B();  System.out.println("----------");  B b2 = new B();  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  A-IIB  A()  ----------  A-IIB  A()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B() |  |  | | --- | | C.  A()  A-IIB  ----------  A()  A-IIB  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B() |  |  | | --- | | D.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **19.** | class A  {  A()  {  System.out.println("A()");  }  A(int i)  {  System.out.println("A(int)");  }    {  System.out.println("A-IIB");  }  }  class B extends A  {  B()  {  System.out.println("B()");  }  B(int i)  {  this();  System.out.println("B(int)");  }    {  System.out.println("B-IIB1");  }  {  System.out.println("B-IIB2");  System.out.println("B-IIB2");  System.out.println("B-IIB2");  }  }  class X  {  public static void main(String[] args)  {  A a1 = new A();  System.out.println("----------");  A a2 = new A();  System.out.println("----------");  B b1 = new B();  System.out.println("----------");  B b2 = new B();  System.out.println("----------");  A a3 = new A(20);  System.out.println("----------");  A a4 = new A(30);  System.out.println("----------");  B b3 = new B(40);  System.out.println("----------");  B b4 = new B(60);  }  } |
| |  | | --- | | A.  A-IIB  A()  ----------  A-IIB  A()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A(int)  ----------  A-IIB  A(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int) |  |  | | --- | | B.  A-IIB  A()  ----------  A()  A-IIB  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A(int)  A-IIB  ----------  A(int)  A-IIB  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  ----------  A()  A-IIB  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int) |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  None | | | |
|  | | |
| **20.** | class A  {  A()  {  System.out.println("A()");  }  A(int i)  {  System.out.println("A(int)");  }    {  System.out.println("A-IIB");  }  }  class B extends A  {  B()  {  System.out.println("B()");  }  B(int i)  {  this();  System.out.println("B(int)");  }    {  System.out.println("B-IIB1");  }  {  System.out.println("B-IIB2");  System.out.println("B-IIB2");  System.out.println("B-IIB2");  }  }  class C extends B  {  C()  {  super(90);  System.out.println("C()");  }  {  System.out.println("C-IIB");  }  C(int i)  {  this();  System.out.println("C(int)");  }  }  class Y  {  public static void main(String[] args)  {  A a1 = new A();  System.out.println("----------");  B b1 = new B();  System.out.println("----------");  A a2 = new A(20);  System.out.println("----------");  B b2 = new B(40);  System.out.println("----------");  C c1 = new C();  System.out.println("----------");  C c2 = new C(20);  System.out.println("----------");  }  } |
| |  | | --- | | A.  A-IIB  A()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  C(int)  ---------- |  |  | | --- | | B.  A-IIB  A()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  C(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  ---------- |  |  | | --- | | C.  A-IIB  A()  ----------  A-IIB  A(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  ----------  A-IIB  A()  B-IIB1  B-IIB2  B-IIB2  B-IIB2  B()  B(int)  C-IIB  C()  C(int)  ---------- |  |  | | --- | | D.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **21.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z extends C  {  static  {  System.out.println("Z-SIB");  }  public static void main(String[] args)  {  System.out.println("main");  }  } |
| |  | | --- | | A.  main  A-SIB  B-SIB  C-SIB  Z-SIB |  |  | | --- | | B.  A-SIB  B-SIB  C-SIB  Z-SIB  main |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  None | | | |
|  | | |
| **22.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z1  {  static  {  System.out.println("Z1-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  A a1 = new A();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  Z1-SIB  main begin  main end  A-SIB |  |  | | --- | | C.  Z1-SIB  main begin  A-SIB  main end |  |  | | --- | | D.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **23.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z2  {  static  {  System.out.println("Z2-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  A a1 = new A();  System.out.println("-----------");  B b1 = new B();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Z2-SIB  main begin  A-SIB  -----------  B-SIB  main end |  |  | | --- | | B.  Z2-SIB  main begin  A-SIB  B-SIB  -----------  main end |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  None | | | |
|  | | |
| **24.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z3  {  static  {  System.out.println("Z3-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  B b1 = new B();  System.out.println("-----------");  A a1 = new A();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Z3-SIB  main begin  A-SIB  -----------  B-SIB  main end |  |  | | --- | | B.  Z3-SIB  main begin  A-SIB  B-SIB  -----------  main end |  |  | | --- | | C.  None | | | |
|  | | |

|  |  |
| --- | --- |
| **25.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z4  {  static  {  System.out.println("Z4-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  B b1 = new B();  System.out.println("-----------");  C c1 = new C();  System.out.println("-----------");  A a1 = new A();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Z4-SIB  main begin  A-SIB  B-SIB  -----------  A-SIB  B-SIB  C-SIB  -----------  main end |  |  | | --- | | B.  Z4-SIB  main begin  B-SIB  -----------  C-SIB  -----------  A-SIB  main end |  |  | | --- | | C.  Z4-SIB  main begin  A-SIB  B-SIB  -----------  C-SIB  -----------  main end |  |  | | --- | | D.  None | | | |
|  | | |
| **26.** | class A  {  static  {  System.out.println("A-SIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  }  class Z5  {  static  {  System.out.println("Z5-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  C c1 = new C();  System.out.println("-----------");  B b1 = new B();  System.out.println("-----------");  A a1 = new A();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Z5-SIB  main begin  A-SIB  B-SIB  C-SIB  -----------  -----------  main end |  |  | | --- | | B.  Z5-SIB  main begin  A-SIB  -----------  B-SIB  -----------  C-SIB  main end |  |  | | --- | | C.  Z5-SIB  main begin  A-SIB  -----------  A-SIB  B-SIB  -----------  A-SIB  B-SIB  C-SIB  main end |  |  | | --- | | D.  Compilation error | | | |
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| --- | --- |
| **27.** | class A  {  static  {  System.out.println("A-SIB");  }  A()  {  System.out.println("A()");  }    {  System.out.println("A-IIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  B()  {  System.out.println("B()");  }  {  System.out.println("B-IIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  C()  {  System.out.println("C()");  }  {  System.out.println("C-IIB");  }  }  class Z6  {  static  {  System.out.println("Z6-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  C c1 = new C();  System.out.println("-----------");  B b1 = new B();  System.out.println("-----------");  A a1 = new A();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Z6-SIB  main begin  A-SIB  B-SIB  C-SIB  A-IIB  A()  B-IIB  B()  C-IIB  C()  -----------  A-IIB  A()  B-IIB  B()  -----------  A-IIB  A()  main end |  |  | | --- | | B.  Z6-SIB  main begin  A-IIB  A()  -----------  A-IIB  A()  B-IIB  B()  -----------  A-SIB  B-SIB  C-SIB  A-IIB  A()  B-IIB  B()  C-IIB  C()  main end |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  None | | | |
|  | | |
| **28.** | // is-a  class A  {  static  {  System.out.println("A-SIB");  }  A()  {  System.out.println("A()");  }    {  System.out.println("A-IIB");  }  }  class B extends A  {  static  {  System.out.println("B-SIB");  }  B()  {  System.out.println("B()");  }  {  System.out.println("B-IIB");  }  }  class C extends B  {  static  {  System.out.println("C-SIB");  }  C()  {  System.out.println("C()");  }  {  System.out.println("C-IIB");  }  }  class Z7  {  static  {  System.out.println("Z7-SIB");  }  public static void main(String[] args)  {  System.out.println("main begin");  A a1 = new A();  System.out.println("-----------");  B b1 = new B();  System.out.println("-----------");  C c1 = new C();  System.out.println("main end");  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  Z7-SIB  main begin  A()  A-IIB  A-SIB  -----------  B-SIB  A-IIB  A()  B-IIB  B()  -----------  C-SIB  A-IIB  A()  B-IIB  B()  C-IIB  C()  main end |  |  | | --- | | C.  Z7-SIB  main begin  A-SIB  A-IIB  A()  -----------  B-SIB  A-IIB  A()  B-IIB  B()  -----------  C-SIB  A-IIB  A()  B-IIB  B()  C-IIB  C()  main end | | | |
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| **29.** | class A  {  int i;  void test1()  {  System.out.println("A-test1");  }  }  class B extends A  {  void test2()  {  System.out.println("B-test2");  System.out.println(i);  test1();  }  public static void main(String[] args)  {  B b1 = new B();  b1.test2();  }  } |
| |  | | --- | | A.  A-test2  0  B-test2 |  |  | | --- | | B.  B-test2  0  A-test1 |  |  | | --- | | C.  Compilation Error |  |  | | --- | | D.  Runtime Error |  |  | | --- | | E.  None | | | |
|  | | |
| **30.** | class A  {  int i;  void test1()  {  System.out.println("A-test1");  }  }  class C  {  A obj;  void test2()  {  System.out.println("C-test2");  System.out.println(i);  test1();  }  public static void main(String[] args)  {  C c1 = new C();  c1.test2();  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  Runtime Error |  |  | | --- | | C.  C-test2  0  A-test1 |  |  | | --- | | D.  None | | | |
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| --- | --- |
| **31.** | class A  {  int i;  void test1()  {  System.out.println("A-test1");  }  }  class D  {  A obj;  void test2()  {  System.out.println("D-test2");  System.out.println(obj.i);  obj.test1();  }  public static void main(String[] args)  {  D d1 = new D();  d1.test2();  }  } |
| |  | | --- | | A.  D-test2  0  A-test1 |  |  | | --- | | B.  D-test2  Exception in thread "main" java.lang.NullPointerException  at D.test2(D.java:15)  at D.main(D.java:21) |  |  | | --- | | C.  A-test1  0  D-test2 |  |  | | --- | | D.  Compilation error | | | |
|  | | |
| **32.** | class A  {  int i;  void test1()  {  System.out.println("A-test1");  }  }  class E  {  A obj = new A();  void test2()  {  System.out.println("E-test2");  System.out.println(obj.i);  obj.test1();  }  public static void main(String[] args)  {  E e1 = new E();  e1.test2();  }  } |
| |  | | --- | | A.  E-test2  0  A-test1 |  |  | | --- | | B.  A-test1  0  E-test2 |  |  | | --- | | C.  Compilation Error | | | |
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| --- | --- |
| **33.** | class A  {  int i;  void test1()  {  System.out.println("A-test1");  }  }  class F  {  A obj;  F(A obj)  {  this.obj = obj;  }  void test2()  {  System.out.println("F-test2");  System.out.println(obj.i);  obj.test1();  }  public static void main(String[] args)  {  A a1 = new A();  F f1 = new F(a1);  f1.test2();  F f2 = new F(new A());  f2.test2();  }  } |
| |  | | --- | | A.  Compilation Error |  |  | | --- | | B.  F-test2  A-test1  F-test2  A-test1 |  |  | | --- | | C.  F-test2  0  A-test1  F-test2  0  A-test1 | | | |
|  | | |

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