

```
1. class Test {  
    int x = 10;  
    Test(int x) { this.x = x; }  
    void show() { System.out.println(x); }  
    public static void main(String[] args) {  
        Test t = new Test(50);  
        t.show();  
    }  
}
```

```
2. class A {  
    static int count = 0;  
    A(){ count++; }  
    public static void main(String[] args){  
        new A(); new A(); new A();  
        System.out.println(count);  
    }  
}
```

```
3. class Demo {  
    Demo(){ System.out.println("A"); }  
    Demo(int a){ System.out.println("B"); }  
    public static void main(String[] args){ new Demo(10); }  
}
```

```
4. class Base {  
    int x = 5;  
}  
class Derived extends Base {  
    int x = 10;  
    void show(){ System.out.println(x + " " + super.x); }  
    public static void main(String[] args){ new  
Derived().show(); }
```

```
}
```

```
5. class P {  
    void show(){ System.out.println("P"); }  
}
```

```
class Q extends P {  
    void show(){ System.out.println("Q"); }  
    public static void main(String[] args){  
        P obj = new Q();  
        obj.show();  
    }  
}
```

```
6. class A {  
    final void display(){ System.out.println("A"); }  
}  
class B extends A {  
    // display() override attempt  
    public static void main(String[] args){ new B().display(); }  
}
```

```
7. class X {  
    void test(int a){ System.out.println("int"); }  
    void test(double a){ System.out.println("double"); }  
    public static void main(String[] args){ new X().test(5); }  
}
```

```
8. class Parent {  
    Parent(){ System.out.println("Parent"); }  
}  
class Child extends Parent {  
    Child(){ System.out.println("Child"); }  
    public static void main(String[] args){ new Child(); }
```

```
}
```

```
9. interface A { void show(); }  
class B implements A {  
    public void show(){ System.out.println("Hello"); }  
    public static void main(String[] args){ A obj = new B();  
obj.show(); }  
}
```

```
10. 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"); }  
    public static void main(String[] args){ new C(); }  
}
```

```
11. class Test {  
    void show(){ System.out.println("A"); }  
}  
class Demo extends Test {  
    void show(){ System.out.println("B"); }  
    void display(){ super.show(); }  
    public static void main(String[] args){ new  
Demo().display(); }  
}
```

```
12. class A {  
    static { System.out.println("Block"); }
```

```
    public static void main(String[] args)
{ System.out.println("Main"); }
}
```

```
13. class A {
    private void show(){ System.out.println("A"); }
    public static void main(String[] args){
        A obj = new A();
        obj.show();
    }
}
```

```
14. class Test {
    void m1(){ System.out.println("m1"); }
    void m1(int x){ System.out.println("m1-int"); }
    public static void main(String[] args){ new Test().m1(); }
}
```

```
15. class A {
    void call(){ System.out.println("A"); }
}
class B extends A {
    void call(){ System.out.println("B"); }
}
class C extends B {
    public static void main(String[] args){
        A obj = new C();
        obj.call();
    }
}
```

```
16. class A {
    A(){ System.out.println("A"); }
}
```

```
}  
class B extends A {  
    B(int a){ System.out.println("B"); }  
    public static void main(String[] args){ new B(10); }  
}
```

```
17. 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 Test {  
    public static void main(String[] args){ new C(); }  
}
```

```
18. class Demo {  
    public static void main(String[] args){  
        try{  
            int a = 10/0;  
        }  
        catch(ArithmeticException e){  
            System.out.println("AE");  
        }  
    }  
}
```

```
19. class Test {  
    public static void main(String[] args){  
        try{
```

```

        try{ String s = null; s.length(); }
        catch(NullPointerException e)
{ System.out.println("NPE"); }
        int a = 5/0;
    }
    catch(Exception e){ System.out.println("EX"); }
}

```

```

20. class A {
    static void m1(){ System.out.println("A"); }
}
class B extends A {
    static void m1(){ System.out.println("B"); }
    public static void main(String[] args){ A.m1(); B.m1(); }
}

```

```

21. class A extends Exception {}
class Test {
    static void m() throws A { throw new A(); }
    public static void main(String[] args){
        try{ m(); }
        catch(A e){ System.out.println("Caught"); }
    }
}

```

```

22. interface I1 { int a = 5; }
interface I2 { int a = 10; }
class Test {
    public static void main(String[] args){
        System.out.println(I1.a + " " + I2.a);
    }
}

```

```
23. class P {
    void show(){ System.out.println("P"); }
}
class Q extends P {
    void show(){ System.out.println("Q"); }
}
class Test {
    public static void main(String[] args){
        P p = new P();
        Q q = new Q();
        P r = new Q();
        p.show(); q.show(); r.show();
    }
}
```

```
24. class Demo {
    final int x;
    Demo(){ x = 20; }
    public static void main(String[] args){
        Demo d = new Demo();
        System.out.println(d.x);
    }
}
```

```
25. class Test {
    public static void main(String[] args){
        try{
            int arr[] = new int[2];
            System.out.println(arr[5]);
        }catch(ArrayIndexOutOfBoundsException e){
            System.out.println("AIOOB");
        }
    }
}
```

```
}  
}
```

1.50

2.3

3.B

4.10 5

5.Q

6.A

7.int

8.Parent

Child

9.Hello

10.A

B

C

11.A

12.Block

Main

13.A

14.m1

15.B

16.A

B

17.A

B

C

18.AE

19.NPE

EX

20.A

B

21.Caught

22.5 10

23.P

Q

Q

24.20

25.AIOOB