

# Inheritance

QUIZ

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

```
class B extends A
{
B(){System.out.println("default B");}
}
```

```
public class Demo {

public static void main(String[] args) {
// TODO Auto-generated method stub
new B();
}
}
```

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

```
class B extends A
{
B(){System.out.println("default B");}
}
```

```
public class Demo {

public static void main(String[] args) {
// TODO Auto-generated method stub
new B();
}
}
```

Output:  
default A  
default B

**class A**

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

**class B extends A**

```
{  
B(int x){System.out.println("default B");}  
}
```

**public class Demo {**

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
}
```

**class A**

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

**class B extends A**

```
{  
B(int x){System.out.println("default B");}  
}
```

**public class Demo {**

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
}
```

Output: default A  
          default B

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

```
class B extends A  
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B();  
}  
  
}
```

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

```
class B extends A  
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B();  
}  
}
```

compilation fails.

```
class A
```

```
{  
}
```

```
class B extends A
```

```
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {
```

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
  
}
```



```
class A
```

```
{  
}
```

```
class B extends A
```

```
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {
```

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}
```

```
}
```

Output : default B

```
class A  
{  
A(int y){System.out.println("default A");}  
}
```

```
class B extends A  
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
  
}
```

```
class A  
{  
A(int y){System.out.println("default A");}  
}
```

```
class B extends A  
{  
B(int x){System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
  
}
```

Compilation fails.

```
class A  
{  
A(int y){System.out.println("default A");}  
}
```

```
class B extends A  
{  
B(int x){super(12);System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
  
}
```

```
class A  
{  
A(int y){System.out.println("default A");}  
}
```

```
class B extends A  
{  
B(int x){super(12);System.out.println("default B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B(5);  
}  
}
```

Output: default A  
default B

```
class A  
{  
  A() {}  
  A(int y){System.out.println("para A");}  
}
```

```
class B extends A  
{  
  B(){this(12);System.out.println("default B");}  
  B(int x){super(12);System.out.println("para B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B();  
}  
  
}
```

```
class A  
{  
  A() {}  
  A(int y){System.out.println("para A");}  
}
```

```
class B extends A  
{  
  B(){this(12);System.out.println("default B");}  
  B(int x){super(12);System.out.println("para B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B();  
}
```

- para A
- para B
- default B

**class A**

```
{  
A() { }  
A(int y){System.out.println("para A");}  
}
```

**class B extends A**

```
{  
B(){System.out.println("default B");this(12); }  
B(int x){super(12);System.out.println("para B");}  
}
```

**public class Demo {**

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B();  
}  
  
}
```



```
class A  
{  
  A() { }  
  A(int y){System.out.println("para A");}  
}  
  
class B extends A  
{  
  B(){System.out.println("default B");this(12); }  
  B(int x){super(12);System.out.println("para B");}  
}
```

```
public class Demo {  
  
  public static void main(String[] args) {  
    // TODO Auto-generated method stub  
    new B();  
  }  
  
}  
compilation fails.
```

```
class A
{
A() { }
A(int y){System.out.println("para A");}
}

class B extends A
{
B(){this(12);}
B(int x){this();System.out.println("para B");}
}

public class Demo {

public static void main(String[] args) {
// TODO Auto-generated method stub
new B();
}
}
```

Compilation fails

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public void m1(){System.out.println("m B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public void m1(){System.out.println("m B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}  
// m B
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public int m1(){System.out.println("m B");return 1;}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public int m1(){System.out.println("m B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
}  
// compilation fails
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public int m1(int x){System.out.println("m B");return x+1;}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
public int m1(int x){System.out.println("m B");return x+1;}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}  
// m A
```



```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
void m1(){System.out.println("m B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}
```

```
class A  
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A  
{  
void m1(){System.out.println("m B");}  
}
```

```
public class Demo {  
  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}  
  
}
```

Compilation fails

```
class A
```

```
{  
public void m1(){System.out.println("m A");}  
}
```

```
class B extends A
```

```
{  
public static void m1(){System.out.println("m B");}  
}
```

```
public class Demo {
```

```
public static void main(String[] args) {  
// TODO Auto-generated method stub  
new B().m1();  
}
```

```
}
```

Compilation fails: