

Snippet 3

Total points 11/30 



✗ What will be the output of the following program?

.../1

```
1  interface One
2  {
3      String s = "FINAL";
4
5      String methodONE();
6  }
7
8  interface Two
9  {
10     String methodONE();
11 }
12
13 abstract class Three
14 {
15     String s = "NOT FINAL";
16
17     public abstract String methodONE();
18 }
19
20 class Four extends Three implements One, Two
21 {
22     public String methodONE()
23     {
24         String s = super.s + One.s;
25
26         return s;
27     }
28 }
29
30 public class MainClass
31 {
32     public static void main(String[] args)
33     {
34         Four four = new Four();
35
36         System.out.println(four.methodONE());
37
38         One one = four;
39
40         System.out.println(one.s);
41     }
42 }
```



NOT FINAL FINAL NOT FINAL FINAL





.../1

Can you find out the errors in the following code?

```
1 interface A
2 {
3     {
4         System.out.println("Interface A");
5     }
6
7     static
8     {
9         System.out.println("Interface A");
10    }
11 }
```

can't given defination





0/1

```
1 interface ABC
2 {
3     void methodOne();
4 }
5
6 interface PQR extends ABC
7 {
8     void methodTwo();
9 }
10
11 abstract class XYZ implements PQR
12 {
13     public void methodOne()
14     {
15         methodTwo();
16     }
17 }
18
19 class MNO extends XYZ
20 {
21     public void methodTwo()
22     {
23         methodOne();
24     }
25 }
26
27 public class MainClass
28 {
29     public static void main(String[] args)
30     {
31         ABC abc = new MNO();
32
33         abc.methodOne();
34     }
35 }
```

☒ Compile Time Error☐ Run Time Error

Correct answer

☒ Run Time Error



.../1

) How do you access interface field 'i' in the below code?

```
class P
{
    interface Q
    {
        int i = 111;
    }
}
```



Correct answer

P.Q.i





0/1

What will be the output of the following program?

```
1  interface A
2  {
3      void myMethod();
4  }
5
6  class B
7  {
8      public void myMethod()
9      {
10         System.out.println("My Method");
11     }
12 }
13
14 class C extends B implements A
15 {
16 }
17
18
19 class MainClass
20 {
21     public static void main(String[] args)
22     {
23         A a = new C();
24
25         a.myMethod();
26     }
27 }
```

- ☐ My Method
- ☒ Compiler error
- ☐ No output



Correct answer

- ☒ My Method





) Does below code compile successfully? If not, why?

```
1  interface A
2  {
3      int i = 111;
4  }
5
6  class B implements A
7  {
8      void methodB()
9      {
10         i = 222;
11     }
12 }
```

☐ Yes

☒ No



✓

) What will be the output of the following program?

```
1  interface P
2  {
3      String p = "PPPP";
4
5      String methodP();
6  }
7
8  interface Q extends P
9  {
10     String q = "QQQQ";
11
12     String methodQ();
13 }
14
15 class R implements P, Q
16 {
17     public String methodP()
18     {
19         return q+p;
20     }
21
22     public String methodQ()
23     {
24         return p+q;
25     }
26 }
27
28 public class MainClass
29 {
30     public static void main(String[] args)
31     {
32         R r = new R();
33
34         System.out.println(r.methodP());
35
36         System.out.println(r.methodQ());
37     }
38 }
```



QQQQPPPP PPPPQQQQ



☐ P P P P Q Q Q Q Q Q Q Q P P P P



```
1  interface X
2  {
3      char c = 'A';
4
5      char methodX();
6  }
7
8  class Y implements X
9  {
10     {
11         System.out.println(c);
12     }
13
14     public char methodX()
15     {
16         char c = this.c;
17
18         return ++c;
19     }
20 }
21
22 public class MainClass
23 {
24     public static void main(String[] args)
25     {
26         Y y = new Y();
27
28         System.out.println(y.methodX());
29
30         System.out.println(y.c);
31
32         System.out.println(X.c);
33     }
34 }
```

☒ A B A A

☐ B A B A

☐ A A B A





1/1

Below class ABC doesn't have even a single abstract method, but it has been declared as abstract. Is it correct?

```
1  abstract class ABC
2  {
3      void firstMethod()
4      {
5          System.out.println("First Method");
6      }
7
8      void secondMethod()
9      {
10         System.out.println("Second Method");
11     }
12 }
```

- ☒ yes
- ☐ no



✗ Can we declare protected methods in an interface?

0/1

- ☒ Yes
- ☐ No
- ☐ Maybe



Correct answer

- ☒ No

✓ Can a class implement more than one interfaces?

1/1

- ☒ Yes
- ☐ No
- ☐ Maybe



✗ For every interface written in a java file, .class file will be generated after 0/1 compilation? True or False?Untitled Question

☐ True

☒ False



Correct answer

☒ True



✓

What will be the output of the below program?

```
1  abstract class X
2  {
3      public X()
4      {
5          System.out.println("ONE");
6      }
7
8      abstract void abstractMethod();
9  }
10
11 class Y extends X
12 {
13     public Y()
14     {
15         System.out.println("TWO");
16     }
17
18     @Override
19     void abstractMethod()
20     {
21         System.out.println("THREE");
22     }
23 }
24
25 public class MainClass
26 {
27     public static void main(String[] args)
28     {
29         X x = new Y();
30
31         x.abstractMethod();
32     }
33 }
```

- ☒ One two three
- ☐ three two one





.../1

Why the below code is showing compile time error?

```
1  interface X
2  {
3      void methodX();
4  }
5
6  class Y implements X
7  {
8      void methodX()
9      {
10         System.out.println("Method X");
11     }
12 }
```

necaouse public access specifier not mention in derived class



Correct answer

public

Feedback

Interface methods must be implemented as public. Because, interface methods are public by default and you should not reduce the visibility of any methods while overriding.





.../1

) Why the below class is showing compilation error?

```
1  abstract class AbstractClass
2  {
3      abstract void abstractMethod()
4      {
5          System.out.println("First Method");
6      }
7  }
```

abstract method doesn't need any defination and body



Correct answer

abstract methods must not have a body



.../1

) Is the following program written correctly? If yes, what value "result" variable will hold if you run the rogram?

```
1  abstract class Calculate
2  {
3      abstract int add(int a, int b);
4  }
5
6  public class MainClass
7  {
8      public static void main(String[] args)
9      {
10         int result = new Calculate()
11         {
12             @Override
13             int add(int a, int b)
14             {
15                 return a+b;
16             }
17         }.add(11010, 022011);
18     }
19 }
```

error-because we can't instatiated abstract method



Correct answer

20235





.../1

Can you identify the error in the below code?

```
1 abstract class AbstractClass
2 {
3     private abstract int abstractMethod();
4 }
```

abstract method return type is only void it doesn't return anything



Correct answer

abstract methods can't be private.

✗ How do you print the value of field 'i' of interface 'OneTwoThree' in the below example and what will be the it's value? .../1

```
1 interface One
2 {
3     int i = 222;
4
5     interface OneTwo
6     {
7         int i = One.i+One.i;
8
9         interface OneTwoThree
10        {
11            int i = OneTwo.i + OneTwo.i;
12        }
13    }
14 }
```

222222222222



Correct answer

888



✗ Can we declare an interface as 'abstract'?

0/1

- ☐ Yes
- ☒ No
- ☐ Maybe

✗

Correct answer

- ☒ Yes

✗

.../1

Can you identify the error in the below code?

```
1 interface A
2 {
3     void methodA();
4 }
5
6 class B implements A
7 {
8     public void methodA()
9     {
10         interface C
11         {
12             int i = 123;
13         }
14     }
15 }
```

we can't declare interface inside class

✗



✗ Can interfaces have static methods?

0/1

☐ Yes

☒ No

☐ Maybe

✗

Correct answer

☒ Yes





1/1

```
1  class A implements B
2  {
3      public int methodB(int i)
4      {
5          return i += i * i;
6      }
7  }
8
9  interface B
10 {
11     int methodB(int i);
12 }
13
14 public class MainClass
15 {
16     public static void main(String[] args)
17     {
18         B b = new A();
19
20         System.out.println(b.methodB(2));
21     }
22 }
```

☒ 4☐ 3☐ 5☐ 1



.../1

Can you identify the error in the below code?

```
1 interface A
2 {
3     private int i;
4 }
```



Correct answer

Illegal Modifier

Feedback

Only public, static and final are allowed.

Student_Id *

200240320094





1/1

Which class is instantiable? Class A or Class B?

```
1  abstract class A
2  {
3
4  }
5
6  class B extends A
7  {
8
9  }
```

☐ Class A

☒ Class B



All members of interface are public by default. True or false?

1/1

☒ True

☐ False





1/1

```
1  interface ABC
2  {
3      public void methodOne();
4      public void methodTwo();
5  }
6
7  interface PQR extends ABC
8  {
9      public void methodOne();
10     public void methodTwo();
11 }
12
13 }
```

- ☐ Compiler Error
- ☐ Run time error
- ☒ No error



✓ Can interfaces have constructors?

1/1

- ☐ yes
- ☒ no



✗ Like classes in java, Interfaces also extend java.lang.Object class by default. True OR False?

0/1

- ☒ True
- ☐ False

✗

Correct answer

- ☒ False



1/1

Is the following code written correctly?

```
1  class A
2  {
3      //Class A
4  }
5
6  interface B extends A
7  {
8      //Interface B extending Class A
9  }
```

- ☒ No
- ☐ Yes





.../1

Below code snippet is showing compilation error? Can you suggest the corrections?

```
1 | abstract class A
2 | {
3 |     abstract int add(int a, int b);
4 | }
5 |
6 | class B extends A
7 | {
8 |
9 | }
```

derived class not given implementation of the base class





.../1

What will be the output of the below program?

```
1 interface X
2 {
3     void method();
4 }
5
6 class Y
7 {
8     public void method()
9     {
10         System.out.println("CLASS Y");
11     }
12 }
13
14 class Z extends Y implements X
15 {
16 }
17
18 public class MainClass
19 {
20     public static void main(String[] args)
21     {
22         X x = new Z();
23
24         x.method();
25     }
26 }
```

error



Correct answer

Class Y

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)

Google Forms

