1. What will be the output of the program?

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| --- |
| **abstract class A {**  **abstract void firstMethod();**  **void secondMethod()    {**  **System.out.println("SECOND");**  **firstMethod();**  **}**  **}**  **abstract class B extends A{**  **@Override**  **void firstMethod()    {**  **System.out.println("FIRST");**  **thirdMethod();**  **}**  **abstract void thirdMethod();**  **}**  **class C extends B{**  **@Override**  **void thirdMethod()    {**  **System.out.println("THIRD");**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **C c = new C();**  **c.firstMethod();**  **c.secondMethod();**  **c.thirdMethod();**  **}**  **}**  **FIRST THIRD SECOND FIRST THIRD THIRD** |

1. What will be the output of the program?

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| **abstract class X{**  **public X()    {**  **System.out.println("ONE");**  **}**  **abstract void abstractMethod();**  **}**  **class Y extends X{**  **public Y()     {**  **System.out.println("TWO");**  **}**  **@Override**  **void abstractMethod()    {**  **System.out.println("THREE");**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **X x = new Y();**  **x.abstractMethod();**  **}**  **} ONE TWO THREE** |

1. What will be the output of the program?

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| **abstract class A{**  **{**  **System.out.println("AAA");**  **}**  **}**  **abstract class B extends A{**  **{**  **System.out.println("BBB");**  **}**  **}**  **class C extends B{**  **{**  **System.out.println("CCC");**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **C c = new C();**  **}**  **} AAA BBB CCC** |

1. What will be the output of the program?

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| --- |
| **abstract class A{**  **abstract int firstMethod(int i);**  **abstract int secondMethod(int i);**  **int thirdMethod(int i)    {**  **return secondMethod(++i);**  **}**  **}**  **abstract class B extends A{**  **@Override**  **int secondMethod(int i)    {**  **return firstMethod(++i);**  **}**  **}**  **class C extends B{**  **@Override**  **int firstMethod(int i)    {**  **return ++i;**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **C c = new C();**  **System.out.println(c.thirdMethod(121121));**  **}**  **} 121124** |

1. What will be the output of the program?

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| **abstract class XYZ{**  **{**  **System.out.println(1);**  **}**  **public XYZ()    {**  **System.out.println(2);**  **abstractMethod();**  **}**  **abstract void abstractMethod();**  **}**  **class PQR extends XYZ{**  **{**  **System.out.println(3);**  **}**  **public PQR()    {**  **System.out.println(4);**  **}**  **@Override**  **void abstractMethod()    {**  **System.out.println(5);**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **PQR pqr = new PQR();**  **}**  **} 1 2 5 3 4** |

1. What will be the output of the program?

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| --- |
| **class X{**  **public X()    {**  **System.out.println("Constructor One");**  **}**  **abstract X(int i)    {**  **System.out.println("Constructor Two");**  **}**  **} Constructors can’t be abstract.** |

1. What will be the output of the program?

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| **class ClassOne{**  **int methodOne(int i, int j)    {**  **return i++ + ++j - ++i - j++;**  **}**  **}**  **abstract class ClassTwo extends ClassOne{**  **abstract int methodOne(int i, int j, int k);**  **@Override**  **int methodOne(int i, int j)    {**  **return methodOne(i, j, i+j);**  **}**  **}**  **class ClassThree extends ClassTwo{**  **@Override**  **int methodOne(int i, int j, int k)    {**  **return --i - j-- + ++k - i++ + ++j - k--;**  **}**  **}**  **public class MainClass{**  **public static void main(String[] args)    {**  **ClassOne one = new ClassOne();**  **ClassThree three = new ClassThree();**  **System.out.println(three.methodOne(one.methodOne(10101, 20202), one.methodOne(20202, 10101)));**  **}**  **} 0** |

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