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| 1) Which three are legal array declarations?   1. int [] myScores []; 2. char [] myChars; 3. int [6] myScores; 4. Dog myDogs []; 5. Dog myDogs [7]; |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | **A.** | |  | | --- | | **1, 2, 4** | |  | B. | |  | | --- | | 2, 4, 5 | | |  | C. | |  | | --- | | 2, 3, 4 | |  | D. | |  | | --- | | All are correct. | | |

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| 2) | Which two statements are equivalent?   1. 3/2 2. 3<2 3. 3\*4 4. 3<<2 |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | A. | |  | | --- | | 1 and 2 | |  | B. | |  | | --- | | 2 and 3 | | |  | **C.** | |  | | --- | | **3 and 4** | |  | D. | |  | | --- | | 1 and 4 | | |

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| 3) What will be the output of the program?  int x = 3;  int y = 1;  if (x = y) /\* Line 3 \*/  {  System.out.println("x =" + x);  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | x = 1 | | |  | B. | |  | | --- | | x = 3 | | |  | **C**. | |  | | --- | | **Compilation fails.** | | |  | D. | |  | | --- | | The code runs with no output. | | |
| 4) What will be the output of the program?  public class ArrayTest  {  public static void main(String[ ] args)  {  float f1[ ], f2[ ];  f1 = new float[10];  f2 = f1;  System.out.println("f2[0] = " + f2[0]);  }  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | **A**. | |  | | --- | | **It prints f2[0] = 0.0** | | |  | B. | |  | | --- | | It prints f2[0] = NaN | | |  | C. | |  | | --- | | An error at f2 = f1; causes compile to fail. | | |  | D. | |  | | --- | | It prints the garbage value. | | |

5)

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| What will be the output of the program?  class Equals  {  public static void main(String [] args)  {  int x = 100;  double y = 100.1;  boolean b = (x = y); /\* Line 7 \*/  System.out.println(b);  }  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | true | | |  | B. | |  | | --- | | false | | |  | **C.** | |  | | --- | | **Compilation fails** | | |  | D. | |  | | --- | | An exception is thrown at runtime | |   6) |
| public void foo( boolean a, boolean b)  {  if( a )  {  System.out.println("A"); /\* Line 5 \*/  }  else if(a && b) /\* Line 7 \*/  {  System.out.println( "A && B");  }  else /\* Line 11 \*/  {  if ( !b )  {  System.out.println( "notB") ;  }  else  {  System.out.println( "ELSE" ) ;  }  }  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | If a is true and b is true then the output is "A && B" | | |  | B. | |  | | --- | | If a is true and b is false then the output is "notB" | | |  | **C.** | |  | | --- | | **If a is false and b is true then the output is "ELSE"** | | |  | D. | |  | | --- | | If a is false and b is false then the output is "ELSE" | | |

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| 7) | Which cause a compiler error? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | int[ ] scores = {3, 5, 7}; | | |  | **B.** | |  | | --- | | **int [ ][ ] scores = {2,7,6}, {9,3,45};** | | |  | C. | |  | | --- | | String cats[ ] = {"Fluffy", "Spot", "Zeus"}; | | |  | D. | |  | | --- | | boolean results[ ] = new boolean [] {true, false, true}; | | |  | E. | |  | | --- | | Integer results[ ] = {new Integer(3), new Integer(5), new Integer(8)}; | | |

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| 8) What will be the output of the program?  class Test  {  public static void main(String [] args)  {  int x= 0;  int y= 0;  for (int z = 0; z < 5; z++)  {  if (( ++x > 2 ) && (++y > 2))  {  x++;  }  }  System.out.println(x + " " + y);  }  } |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | A. | |  | | --- | | 5 2 | |  | B. | |  | | --- | | 5 3 | | |  | **C.** | |  | | --- | | **6 3** | |  | D. | |  | | --- | | 6 4 | | |

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| 9) What will be the output of the program?  int i = l, j = -1;  switch (i)  {  case 0, 1: j = 1; /\* Line 4 \*/  case 2: j = 2;  default: j = 0;  }  System.out.println("j = " + j); |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | A. | |  | | --- | | j = -1 | |  | B. | |  | | --- | | j = 0 | | |  | C. | |  | | --- | | j = 1 | |  | **D.** | |  | | --- | | **Compilation fails.** | | |