**Fundamentals**

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| 1. | Which four options describe the correct default values for array elements of the types indicated?   1. int -> 0 2. String -> "null" 3. Dog -> null 4. char -> '\u0000' 5. float -> 0.0f 6. boolean -> true |
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| 2. | Which one of these lists contains only Java programming language keywords? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | class, if, void, long, Int, continue | | [**B.**](javascript:%20void%200;) | goto, instanceof, native, finally, default, throws | | [**C.**](javascript:%20void%200;) | try, virtual, throw, final, volatile, transient | | [**D.**](javascript:%20void%200;) | strictfp, constant, super, implements, do | | [**E.**](javascript:%20void%200;) | byte, break, assert, switch, include | |

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| 3. | Which will legally declare, construct, and initialize an array? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | int [] myList = {"1", "2", "3"}; | | [**B.**](javascript:%20void%200;) | int [] myList = (5, 8, 2); | | [**C.**](javascript:%20void%200;) | int myList [] [] = {4,9,7,0}; | | [**D.**](javascript:%20void%200;) | int myList [] = {4, 3, 7}; | |

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| 4. | Which is a reserved word in the Java programming language? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | method | | [**B.**](javascript:%20void%200;) | native | | [**C.**](javascript:%20void%200;) | subclasses | | [**D.**](javascript:%20void%200;) | reference | | [**E.**](javascript:%20void%200;) | array | |

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| 5. | Which is a valid keyword in java? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | interface | | [**B.**](javascript:%20void%200;) | string | | [**C.**](javascript:%20void%200;) | Float | | [**D.**](javascript:%20void%200;) | unsigned | |

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| 6. | Which three are legal array declarations?   1. int [] myScores []; 2. char [] myChars; 3. int [6] myScores; 4. Dog myDogs []; 5. Dog myDogs [7]; |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 1, 2, 4 | | [**B.**](javascript:%20void%200;) | 2, 4, 5 | | [**C.**](javascript:%20void%200;) | 2, 3, 4 | | [**D.**](javascript:%20void%200;) | All are correct. | |

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| 7. | public interface Foo  {  int k = 4; /\* Line 3 \*/  }  Which three piece of codes are equivalent to line 3?   1. final int k = 4; 2. public int k = 4; 3. static int k = 4; 4. abstract int k = 4; 5. volatile int k = 4; 6. protected int k = 4; |
| |  |  |  |  | | --- | --- | --- | --- | | [**A.**](javascript:%20void%200;) | | 1, 2 and 3 | | | [**B.**](javascript:%20void%200;) | | 2, 3 and 4 | | | [**C.**](javascript:%20void%200;) | | 3, 4 and 5 | | | [**D.**](javascript:%20void%200;) | | 4, 5 and 6 | | | 8. | Which one of the following will declare an array and initialize it with five numbers? | | | |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | Array a = new Array(5); | | [**B.**](javascript:%20void%200;) | int [] a = {23,22,21,20,19}; | | [**C.**](javascript:%20void%200;) | int a [] = new int[5]; | | [**D.**](javascript:%20void%200;) | int [5] array; | | | | 9. | Which three are valid declarations of a char?   1. char c1 = 064770; 2. char c2 = 'face'; 3. char c3 = 0xbeef; 4. char c4 = \u0022; 5. char c5 = '\iface'; 6. char c6 = '\uface'; | | | |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 1, 2, 4 | | [**B.**](javascript:%20void%200;) | 1, 3, 6 | | [**C.**](javascript:%20void%200;) | 3, 5 | | [**D.**](javascript:%20void%200;) | 5 only | | |  |  |  | | --- | --- | | 10. | Which is the valid declarations within an interface definition? | | |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | public double methoda(); | | [**B.**](javascript:%20void%200;) | public final double methoda(); | | [**C.**](javascript:%20void%200;) | static void methoda(double d1); | | [**D.**](javascript:%20void%200;) | protected void methoda(double d1); | |  |  |  | | --- | --- | | 11. | Which one is a valid declaration of a boolean? | | |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | boolean b1 = 0; | | [**B.**](javascript:%20void%200;) | boolean b2 = 'false'; | | [**C.**](javascript:%20void%200;) | boolean b3 = false; | | [**D.**](javascript:%20void%200;) | boolean b4 = Boolean.false(); | | [**E.**](javascript:%20void%200;) | boolean b5 = no; | | |

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| 12. | Which three are valid declarations of a float?   1. float f1 = -343; 2. float f2 = 3.14; 3. float f3 = 0x12345; 4. float f4 = 42e7; 5. float f5 = 2001.0D; 6. float f6 = 2.81F; |
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| 13. | Which is a valid declarations of a String? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | String s1 = null; | | [**B.**](javascript:%20void%200;) | String s2 = 'null'; | | [**C.**](javascript:%20void%200;) | String s3 = (String) 'abc'; | | [**D.**](javascript:%20void%200;) | String s4 = (String) '\ufeed'; | |

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| 14. | What is the numerical range of a char? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | -128 to 127 | | [**B.**](javascript:%20void%200;) | -(215) to (215) - 1 | | [**C.**](javascript:%20void%200;) | 0 to 32767 | | [**D.**](javascript:%20void%200;) | 0 to 65535 | |