**1. Which of the following is the correct way to declare an array in Java?**

**A) int arr[] = new int(10);  
B) int[] arr = new int[10];  
C) int arr() = new int[10];  
D) int arr = new int[10];**

**2. What will be the output of the following Java code?**

**class multidimention\_array**

**{**

**public static void main(String args[])**

**{**

**int arr[][] = new int[3][];**

**arr[0] = new int[1];**

**arr[1] = new int[2];**

**arr[2] = new int[3];**

**int sum = 0;**

**for (int i = 0; i < 3; ++i)**

**for (int j = 0; j < i + 1; ++j)**

**arr[i][j] = j + 1;**

**for (int i = 0; i < 3; ++i)**

**for (int j = 0; j < i + 1; ++j)**

**sum + = arr[i][j];**

**System.out.print(sum);**

**}**

**}**

1. **11  
   B) 10  
   C) 13  
   D) 14**

**3. Which exception is thrown when an array is accessed with an illegal index?**

**class array\_output**

**{**

**public static void main(String args[])**

**{**

**int array\_variable[][] = {{ 1, 2, 3}, { 4 , 5, 6}, { 7, 8, 9}};**

**int sum = 0;**

**for (int i = 0; i < 3; ++i)**

**for (int j = 0; j < 3 ; ++j)**

**sum = sum + array\_variable[i][j];**

**System.out.print(sum / 5);**

**}**

**}**

**A)8  
B) 9  
C) 10  
D) 11**

**4. How do you find the length of an array arr?**

**class evaluate**

**{**

**public static void main(String args[])**

**{**

**int arr[] = new int[] {0 , 1, 2, 3, 4, 5, 6, 7, 8, 9};**

**int n = 6;**

**n = arr[arr[n] / 2];**

**System.out.println(arr[n] / 2);**

**}**

**}**

**A)3  
B) 0  
C) 6  
D) 1**

**5. What is the output of the following code?**

**int[] arr = {1, 2, 3, 4, 5};**

**System.out.println(arr[2]);**

**A) 1  
B) 2  
C) 3  
D) 4**

**6. Which of these is necessary to specify at time of array initialization?  
a) Row  
b) Column  
c) Both Row and Column  
d) None of the mentioned**

**7. What will be the output of the following code?**

**int[] arr = new int[5];**

**System.out.println(arr[0]);**

**A) 0  
B) null  
C) Undefined  
D) Error**

**8. Which of the following methods can be used to copy an array in Java?**

**A) System.arraycopy()  
B) Arrays.copy()  
C) Collections.copy()  
D) System.copy()**

**9. Which of the following data types can an array store?**

**A) Only primitive data types  
B) Only objects  
C) Both primitive data types and objects  
D) None of the above**

**10. What will happen if you try to access an array with a negative index?**

**A) The first element will be accessed  
B) The last element will be accessed  
C) An ArrayIndexOutOfBoundsException will be thrown  
D) It will compile and run without any issue**

**11. How can you iterate over an array in Java?**

**A) Using a for loop  
B) Using a while loop  
C) Using an enhanced for loop (for-each loop)  
D) All of the above**

**12. What is the output of the following code?**

**int[] arr = {10, 20, 30, 40, 50};**

**System.out.println(arr[arr.length - 1]);**

**A) 10  
B) 40  
C) 50  
D) Error**

**13. What is a multi-dimensional array in Java?**

**A) An array that contains only one dimension  
B) An array that contains arrays as its elements  
C) An array that contains objects  
D) None of the above**

**14. How do you declare a 2D array in Java?**

**A) int arr[][] = new int[5][5];  
B) int[] arr = new int[5][5];  
C) int[][] arr = new int(5, 5);  
D) int[][] arr = int[5][5];**

**15. What will be the output of the following code?**

**int[][] arr = {{1, 2}, {3, 4}, {5, 6}};**

**System.out.println(arr[2][1]);**

**A) 2  
B) 4  
C) 5  
D) 6**

**16. Which of the following is a correct way to initialize a 2D array?**

**A) int[][] arr = new int[3][3]{1, 2, 3};  
B) int arr[3][3] = new int[3][3];  
C) int[][] arr = {{1, 2, 3}, {4, 5, 6}, {7, 8, 9}};  
D) int arr[][] = new int[3][3]{{1, 2, 3}};**

**17. How do you pass an array to a method in Java?**

**A) Arrays cannot be passed to methods  
B) By passing the array name with square brackets arr[]  
C) By passing the array name without square brackets arr  
D) By passing the array elements one by one**

**18. How do you return an array from a method in Java?**

**A) Arrays cannot be returned from methods  
B) By returning the array name with square brackets arr[]  
C) By returning the array name without square brackets arr  
D) By returning a single element of the array**

**19. What is the output of the following code?**

**int[] arr = {1, 2, 3, 4, 5};**

**int sum = 0;**

**for (int num : arr) {**

**sum += num;**

**}**

**System.out.println(sum);**

**A) 10  
B) 12  
C) 15  
D) 20**

### ****20. Which of the following is true about arrays in Java?****

**A) Arrays can store elements of different data types  
B) The size of an array can be changed dynamically  
C) Arrays are objects in Java  
D) Arrays cannot be accessed using an enhanced for loop**

**21. What is a jagged array in Java?**

**A) An array with unequal column sizes  
B) An array that contains only one dimension  
C) An array that contains objects  
D) None of the above**

**22. Which of the following statements is true about arrays in Java?**

**A) Arrays are dynamically resized  
B) Arrays can store different data types  
C) Array length is fixed once it is initialized  
D) Arrays in Java are objects**

**23. What will happen if you assign a value to an array index that is out of bounds?**

**A) The value will be assigned to the last element  
B) The value will be assigned to the first element  
C) An ArrayIndexOutOfBoundsException will be thrown  
D) The value will be discarded**

**24. Which of the following statements is used to create an array of 10 integers?**

**A) int[] arr = new int(10);  
B) int arr[] = new int[10];  
C) int[] arr = int[10];  
D) int arr[] = new int(10);**

**25. How do you initialize an array with all elements set to zero?**

**A) int[] arr = new int[5];  
B) int[] arr = {0, 0, 0, 0, 0};  
C) Both A and B  
D) None of the above**

**26. What is the output of the following code fragment?**

**int [ ] items = {2, 7, 3, 5, 8, 9};**

**int funny = items[0];**

**for (int i = 0; i < items.length; i++)**

**{**

**if (items[ i ] > funny)**

**funny = items[ i ];**

**}**

**System.out.print(funny);**

1. **[a] 2**
2. **[b] 9**
3. **[c] 2 3 5 7 8 9**
4. **[d] 2 7 3 5 8 9**

**27. What number is in matrix[2][2]?**

**int [ ] [ ] matrix = { {1, 2, 3, 4},**

**{5, 6, 7, 8},**

**{9, 10, 11, 12},**

**{13, 14, 15, 16}**

**};**

1. **[a] 6**
2. **[b] 7**
3. **[c] 10**
4. **[d] 11**

**28) Given the following code segment, what is the value of sum after this code executes?**

**int[][] matrix = { {1,1,2,2},{1,2,2,4},{1,2,3,4},{1,4,1,2}};**

**int sum = 0;**

**int col = matrix[0].length - 2;**

**for (int row = 0; row < 4; row++)**

**{**

**sum = sum + matrix[row][col];**

**}**

**System.out.println(sum);**

**A. 4**

**B. 8**

**C. 9**

**D. 12**

**E. 10**

**29 . What symbol is used for a varargs method parameter?**

**a) ..**

**b) ...**

**c) --**

**d) ---**

**30 . What happens if you try to access an array element with an index that is out of bounds?**

**a) A runtime exception is thrown**

**b) The program terminates abruptly**

**c) The element value is set to null**

**d) The element value is set to 0**

**31. will be the output of the following code?**

**public class Main {**

**public static void main(String[] args) {**

**int[] arr = new int[5];**

**for (int i = 0; i < arr.length; i++) {**

**arr[i] = i;**

**}**

**for (int i = 0; i < arr.length; i++) {**

**arr[i] = arr[i] \* arr[i];**

**}**

**for (int num : arr) {**

**System.out.print(num + " ");**

**}**

**}**

**}**

**A. 0 1 4 9 16**

**B. 1 4 9 16 25**

**C. 0 1 2 3 4**

**D. 1 4 9 16 25**

**32. What will be the output of the following code?**

**public class Main {**

**public static void main(String[] args) {**

**int[] arr = {1, 2, 3, 4, 5};**

**int sum = 0;**

**for (int i = 0; i < arr.length; i++) {**

**if (i % 2 == 0) {**

**sum += arr[i];**

**} else {**

**sum -= arr[i];**

**}**

**}**

**System.out.println(sum);**

**}**

**}**

**A. -3**

**B. -2**

**C. 3**

**D. 2**

**33. What will be the output of the following code?**

**public class Main {**

**public static void main(String[] args) {**

**int[] arr = {1, 2, 3, 4, 5};**

**int product = 1;**

**for (int i = 0; i < arr.length; i++) {**

**product \*= arr[i];**

**if (arr[i] % 2 == 0) {**

**continue;**

**}**

**product += arr[i];**

**}**

**System.out.println(product);**

**}**

**}**

**A. 60**

**B. 120**

**C. 100**

**D. 30**

**34. What will be the output of the following code?**

**public class Main {**

**public static void main(String[] args) {**

**int[] arr = {0, 1, 2, 3, 4};**

**int sum = 0;**

**for (int i = 0; i < arr.length; i++) {**

**sum += arr[i];**

**if (sum > 5) {**

**break;**

**}**

**}**

**System.out.println(sum);**

**}**

**}**

**A. 6**

**B. 5**

**C. 4**

**D. 3**

**35. What will be the output of the following code?**

**public class Main {**

**public static void main(String[] args) {**

**int[][] arr = {**

**{1, 2},**

**{3, 4},**

**{5, 6}**

**};**

**for (int i = 0; i < arr.length; i++) {**

**for (int j = arr[i].length - 1; j >= 0; j--) {**

**System.out.print(arr[i][j] + " ");**

**}**

**System.out.println();**

**}**

**}**

**}**

**A.**

**2 1**

**4 3**

**6 5**

**B.**

**1 2**

**3 4**

**5 6**

**C.**

**2 1**

**4 3**

**6 5**

**D.**

**1 2 3 4 5 6**