1. Which of these operators is used to allocate memory to array variable in Java?
a) malloc
b) alloc
c) new
d) new malloc
View Answer
Answer:c
Explanation:Operator new allocates block of memory specified by the size of array, and gives the reference of memory allocated to the array variable.

2. Which of these is an incorrect array declaration?
a) int arr[] = new int[5]
b) int [] arr = new int[5]
c) int arr[]
arr = new int[5]
d) int arr[] = int [5] new
View Answer
Answer:d
Explanation:Operator new must be succeeded by array type and array size.

3. What will this code print?
int arr[] = new int [5];

System.out.print(arr);

a) 0

b) value stored in arr[0].

c) 00000

d) Garbage value

View Answer

Answer:d

Explanation:arr is an array variable, it is pointing to array if integers. Printing arr will print garbage value. It is not same as printing arr[0].

4. Which of these is an incorrect Statement?

a) It is necessary to use new operator to initialize an array.

b) Array can be initialized using comma separated expressions surrounded by curly braces.

c) Array can be initialized when they are declared.

d) None of the mentioned

View Answer

Answer: a

Explanation:Array can be initialized using both new and comma separated expressions surrounded by curly braces example : int arr[5] = new int[5]; and int arr[] = { 0, 1, 2, 3, 4};

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5. 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

View Answer

Answer:a

Explanation:None.

6. What is the output of this program?

```
classarray_output{publicstaticvoidmain(Stringargs[]){intarray_variable
[]=newint[10];for(inti=0;i<10;++i){array_variable[i]=i;System.out.print
(array_variable[i]+" ");i++;}}}
```

a) 0 2 4 6 8

b) 1 3 5 7 9

c) 0 1 2 3 4 5 6 7 8 9

d) 1 2 3 4 5 6 7 8 9 10

View Answer

Answer:a

Explanation:When an array is declared using new operator then all of its elements are initialized to 0 automatically. for loop body is executed 5 times as whenever controls comes in the loop i value is incremented twice, first by i++ in body of loop then by ++i in increment condition of for loop.

output:

$ javac array_output.java

$ java array_output

0 2 4 6 8

7. What is the output of this program?

```
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);}}
```

a) 11
b) 10
c) 13
d) 14
View Answer
Answer:b
Explanation:arr[][] is a 2D array, array has been allotted memory in parts. 1st row contains 1 element, 2nd row contains 2 elements and 3rd row contains 3 elements. each element of array is given i + j value in loop. sum contains addition of all the elements of the array.
output:
$ javac multidimention_array.java
$ java multidimention_array
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8. What is the output of this program?

```
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

View Answer

Answer:d

Explanation:Array arr contains 10 elements. n contains 6 thus in next line n is given value 2 printing arr[2]/2 i:e 2/2 = 1.

output:

$ javac evaluate.java

$ java evaluate

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9. What is the output of this program?

```
classarray_output{publicstaticvoidmain(Stringargs[]){chararray_variable[]=newchar[10];for(inti=0;i<10;++i){array_variable[i]='i';System.out.print(array_variable[i]+"");}}}
```

a) 1 2 3 4 5 6 7 8 9 10

b) 0 1 2 3 4 5 6 7 8 9 10

c) i j k l m n o p q r

d) i i i i i i i i i i

View Answer

Answer:d

Explanation:None.

output:

$ javac array_output.java

$ java array_output

i i i i i i i i i i

10. What is the output of this program?
classarray_output{publicstaticvoidmain(Stringargs[]){intarray_variable
[][]={{1,2,3},{4,5,6},{7,8,9}};intsum=0;for(inti=0;i<3;++i)for(intj=0;j<3;+
+j)sum=sum+array_variable[i][j];System.out.print(sum/5);}}

a) 8
b) 9
c) 10
d) 11
View Answer
Answer:b
Explanation:None.
output:
$ javac array_output.java
$ java array_output
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