

Data Structures and Algorithms- Quiz 1

Question 1

1 / 1 pts

1. Generally, the index of the first element in an array is

- ☒ 0
- ☐ -1
- ☐ 1
- ☐ none of this

Question 2

1 / 1 pts

2. What is the total size of array `int arr[20]`, where `int` taking 4 bytes of size.

- ☒ 80
- ☐ 60
- ☐ 100
- ☐ 120

Question 3

1 / 1 pts

The correct way of defining an array in java.

- ☒ `int a[] = new int[10];`
- ☐ `int a[] = new int(10);`
- ☐ `int a[] = new int(10);`
- ☐ `int a[] = new int(10);`

Question 4

2 / 2 pts

Predict the output of following java code.

```
public class Array
{
    public static void main(String args[])
    {
        int [ ] a = {6,5,7,8,9};
        System.out.println(a[5]);
    }
}
```

- ☒ `ArrayIndexOutOfBoundsException`
- ☐ 9
- ☐ 8
- ☐ 0

Question 5**1 / 1 pts**

What is the speciality of an array?

- ☒ Easier to store elements of same data type
- ☐ Elements in an array cannot be sorted
- ☐ Index of first element of an array is always 1
- ☐ Objects of mixed data types can be stored

Question 6**1 / 1 pts**

An Array is what kind of data structure

- ☒ Linear
- ☐ Non linear
- ☐ Complex
- ☐ None of this

Question 7**3 / 3 pts**

A 2 D array, A with No.of rows = 2, No. of columns = 4 . Size of each item in the array is 2 byte. Base address of the array is 1000.Find the address of the location A[1][2] in Row-major Representation.

- ☒ 1012
- ☐ 1014
- ☐ 1016
- ☐ 1018