

# Std 10 The Brigade School Revision worksheet 3 (2020-21)

Total points 33/40 ?

STD 10

Computer Applications

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Part A(Marks: 10)



✓ Question 1 (a) If an index of an element is N, what is its actual position in the array? \* 2/2

- ☐ N
- ☐ N-1
- ☒ N+1
- ☐ N+2



#### Feedback

`char[] c = new char[5];`

Question 1 (b) What are the values in a after multAll(3) executes?

```
int[] a = {1, 3, -5, -2};
```

```
public void multAll(int amt)
{
    int i = 0;
    while (i < a.length)
    {
        a[i] = a[i] * amt;
        i++;
    }
}
```

✓ Question 1 (b) \* 2/2

- ☐ {1, 3, -5, -2}
- ☒ {3, 9, -15, -6}
- ☐ {2, 6, -10, -4}
- ☐ The code will never stop executing due to an infinite loop



**Question 1 (c) What is the output of the below Java program?**

```
public class Polo {  
    public static void main(String args[])  
    {  
        String[] computer = {"RAM","HDD","MOUSE"};  
        String[] parts = {computer[0],computer[2]};  
        System.out.print(parts[1]);  
    }  
}
```

**✗ Question 1 (c) \***

0/2

- ☒ RAM
- ☐ HDD
- ☐ MOUSE
- ☐ ERROR

**✗****Correct answer**

- ☒ MOUSE

**✓ Question 2 (a) Linear Search is useful when the array is unsorted. \***

2/2

- ☒ TRUE
- ☐ FALSE

**✓****Question 2 (b) What is the output of the below Java program?**

```
int ages[3] = {25, 27, 30};  
System.out.println(ages[1]);
```



✖ Question 2 (b) \*

0/2

☐ 25

☒ 27

☐ 30

☐ ERROR

✖

Correct answer

☒ ERROR

Part B(Marks: 30)



### ✗ Question 3: Write a program to print the prime numbers in a given array. \*

12/15

```
import java.util.*;
class prime
{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int i,j, p;
        int arr[] = new int[10];
        System.out.println("Enter array elements:");
        for (i = 0; i < 10; i++)
        {
            arr[i] = sc.nextInt();
        }
        System.out.println("All prime numbers are:");

        for (i = 0; i < 10; i++)
        {
            j = 2;
            p = 1;
            while (j < arr[i])
            {
                if (arr[i] % j == 0)
                {
                    p = 0;
                    break;
                }
                j++;
            }
            if (p == 1)
            {
                System.out.print(" " + arr[i]);
            }
        }
    }
}
```

#### VARIABLE DESCRIPTION TABLE

Variable's Name -- Datatype -- Description

arr[] -- int -- SDA to store 10 elements

i -- int -- Loop variable

j -- int -- Loop Variable

p -- int -- Variable that helps to find the prime numbers.



✓ **Question 4: Write a program to sort and print the elements of an array 15/15 in descending order. \***

```
import java.util.Scanner;
public class Descending_Order
{
    public static void main(String args[])
    {
        int temp;
        Scanner s = new Scanner(System.in);
        int a[] = new int[10];
        System.out.println("Enter all the elements:");
        for (int i = 0; i < 10; i++)
        {
            a[i] = s.nextInt();
        }
        for (int i = 0; i < 10; i++)
        {
            for (int j = i + 1; j < 10; j++)
            {
                if (a[i] < a[j])
                {
                    temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
        System.out.print("Descending Order:");
        for (int i = 0; i < a.length - 1; i++)
        {
            System.out.print(a[i] + ",");
        }
        System.out.print(a[10 - 1]);
    }
}
```

#### VARIABLE DESCRIPTION TABLE

Variable's Name -- Datatype -- Description

a[] -- int -- SDA to store 10 elements

i -- int -- Loop variable

j -- int -- Loop Variable

temp -- int -- Helps to sort the array.

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