



**Programming Paper | Set – D**

**Instructions:**

- You need to implement only one function per program. (You can choose any language for a program such as C, C++, Java, C#)
- **Understand questions and sample test cases carefully** before starting with programs.
- Please write only the method(s) which contain the core logic of the program using the specified signature. **DO NOT WRITE** the whole program (with all the header files and driver program or outputs).
- Try writing clean optimized code with comments & spacing.
- Mentioning Complexity at bottom of the program will be a Plus.

Good Luck!

**Question 1:**

Given two arrays, *Array1* and *Array2*, of equal size *S*, the objective is to track down the least value of  $Array1[0] * Array2[0] + Array1[1] * Array2[1] + \dots + Array1[S-1] * Array2[S-1]$ . Shuffling of elements of arrays are allowed.

**Test Case 1**

**Inputs:**

Array1[] = { 3, 1, 1 }  
Array2[] = { 5, 4, 6 }

**Output:** 23

**Test Case 2**

**Inputs:**

Array1[] = { 6, 1, 9, 5, 4 }  
Array2[] = { 3, 4, 8, 2, 4 }

**Output:** 80

**Signature:**

**C#/ Java**

```
static long findLeastValue(int Array1[], int Array2[]) {  
    // Write logic here  
}
```

**C/ C++**

```
long int findLeastValue (int Array1 [], int Array2 []) {  
    // Write logic here  
}
```



**Question 2:**

Given an array *Numbers[]* and a number N, display for all pair in *Numbers[]* with difference as 2N

**Test Case 1**

**Inputs:**

*Numbers[]* = { 3, 1, 1 }

N = 1

**Output:** (3,1)

**Test Case 2**

**Inputs:**

*Numbers[]* = { 16, 4, 10, 6, 1, -8 }

N = 3

**Output:** (16, 10), (4, 10)

**Signature:**

```
void displayValuesPairs(int Array []) {
```

```
    // Write logic here
```

```
}
```