

ADS LAB TEST → 1Program 2 :-AVL TREE :- smaller count.Program Logic :-

void constructLowerArray ( int arr[], int \*countSmaller, int n )

```

{
    int i, j;
    for ( i=0; i<n; i++)
        count countSmaller[i] = 0;

    for ( i=0; i<n; i++)
    {
        for for ( j=i+1; j<n; j++)
        {
            if ( arr[j] < arr[i] )
                countSmaller[i]++;
        }
    }
}

```

void printArray ( int arr[], int size )

```

{
    int i;
    for ( i=0; i<size; i++)
        printf ( "%d", arr[i] );
    printf ( "\n" );
}

```

~~int array;~~

{

~~int a~~

int main()

{

int arr[] = {12, 1, 2, 3, 0, 11, 4, 6, 1, 1, 0, 1, 0};

int n = size of arr / size of arr[0];

int \*low = (int \*) malloc(size of (int) \* n);

(1) Construct lower array (arr, low, n);

printArray (low, n)

} return 0;