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Segregate 0s and 1s in an array

Difficulty Level : Easy • Last Updated : 02 Aug, 2021

You are given an array of 0s and 1s in random order. Segregate 0s on left side and 1s on right side of the array [Basically you have to sort the array]. Traverse array only once.

Input array = [0, 1, 0, 1, 0, 0, 1, 1, 1, 0]

Output array = [0, 0, 0, 0, 0, 1, 1, 1, 1, 1]

Recommended: Please solve it on "**PRACTICE**" first, before moving on to the solution.



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Thanks to Naveen for suggesting this method.

1) Count the number of 0s. So let's understand with an example we have an array **arr = [0, 1, 0, 1, 0, 0, 1]** the size of the array is **7** now we will traverse the entire array and find out the number of zeros in the array, In this case the number of zeros is **4** so now we can easily get the number of **Ones** in the array by **Array Length – Number Of Zeros**.

2) Once we have counted, we can fill the array first we will put the **zeros** and then **ones** (we can get number of ones by using above formula).

Time Complexity : $O(n)$

C++

```
// C++ code to Segregate 0s and 1s in an array
#include <bits/stdc++.h>
using namespace std;

// Function to segregate 0s and 1s
void segregate0and1(int arr[], int n)
```

```

{
    int count = 0; // Counts the no of zeros in arr

    for (int i = 0; i < n; i++) {
        if (arr[i] == 0)
            count++;
    }

    // Loop fills the arr with 0 until count
    for (int i = 0; i < count; i++)
        arr[i] = 0;

    // Loop fills remaining arr space with 1
    for (int i = count; i < n; i++)
        arr[i] = 1;
}

// Function to print segregated array
void print(int arr[], int n)
{
    cout << "Array after segregation is ";

    for (int i = 0; i < n; i++)
        cout << arr[i] << " ";
}

```



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```

int n = sizeof(arr) / sizeof(arr[0]);

segregate0and1(arr, n);
print(arr, n);

return 0;
}

// This code is contributed by Sahil_Bansall

```

Java



```

// Java code to Segregate 0s and 1s in an array
class GFG {

```



```

    // function to segregate 0s and 1s
    static void segregate0and1(int arr[], int n)
    {
        int count = 0; // counts the no of zeros in arr

```

```

    for (int i = 0; i < n; i++) {
        if (arr[i] == 0)
            count++;
    }

    // loop fills the arr with 0 until count
    for (int i = 0; i < count; i++)
        arr[i] = 0;

    // loop fills remaining arr space with 1
    for (int i = count; i < n; i++)
        arr[i] = 1;
}

// function to print segregated array
static void print(int arr[], int n)
{
    System.out.print("Array after segregation is ");
    for (int i = 0; i < n; i++)
        System.out.print(arr[i] + " ");
}

// driver function
public static void main(String[] args)
{
    int arr[] = new int[]{ 0, 1, 0, 1, 1, 1 };

```



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```

    }
}

```

// This code is contributed by Kamal Rawal

Python3

```

# Python 3 code to Segregate
# 0s and 1s in an array

```

```

# Function to segregate 0s and 1s
def segregate0and1(arr, n) :

```

```

    # Counts the no of zeros in arr
    count = 0

```

```

    for i in range(0, n) :
        if (arr[i] == 0) :
            count = count + 1

```



```

# Loop fills the arr with 0 until count
for i in range(0, count) :
    arr[i] = 0

# Loop fills remaining arr space with 1
for i in range(count, n) :
    arr[i] = 1

# Function to print segregated array
def print_arr(arr , n) :
    print( "Array after segregation is ",end = "")

    for i in range(0, n) :
        print(arr[i] , end = " ")

# Driver function
arr = [ 0, 1, 0, 1, 1, 1 ]
n = len(arr)

segregate0and1(arr, n)
print_arr(arr, n)

```



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C#

```

// C# code to Segregate 0s and 1s in an array
using System;

class GFG {

    // function to segregate 0s and 1s
    static void segregate0and1(int []arr, int n)
    {
        // counts the no of zeros in arr
        int count = 0;

        for (int i = 0; i < n; i++) {
            if (arr[i] == 0)
                count++;
        }

        // loop fills the arr with 0 until count
        for (int i = 0; i < count; i++)
            arr[i] = 0;
    }
}

```

```

    // loop fills remaining arr space with 1
    for (int i = count; i < n; i++)
        arr[i] = 1;
}

// function to print segregated array
static void print(int []arr, int n)
{
    Console.WriteLine("Array after segregation is ");
    for (int i = 0; i < n; i++)
        Console.Write(arr[i] + " ");
}

// driver function
public static void Main()
{
    int []arr = new int[]{ 0, 1, 0, 1, 1, 1 };
    int n = arr.Length;

    segregate0and1(arr, n);
    print(arr, n);
}
}

```



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```

<?php
// PHP code to Segregate
// 0s and 1s in an array

// Function to segregate
// 0s and 1s
function segregate0and1(&$arr, $n)
{
    $count = 0; // Counts the no
                // of zeros in arr

    for ($i = 0; $i < $n; $i++)
    {
        if ($arr[$i] == 0)
            $count++;
    }

    // Loop fills the arr
    // with 0 until count
    for ($i = 0; $i < $count; $i++)

```

```

    $arr[$i] = 0;

    // Loop fills remaining
    // arr space with 1
    for ($i = $count; $i < $n; $i++)
        $arr[$i] = 1;
}

// Function to print
// segregated array
function toprint(&$arr , $n)
{
    echo ("Array after segregation is ");

    for ($i = 0; $i < $n; $i++)
        echo ( $arr[$i] . " ");
}

// Driver Code
$arr = array(0, 1, 0, 1, 1, 1 );
$n = sizeof($arr);

segregate0and1($arr, $n);
toprint($arr, $n);

// This code is contributed

```



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Javascript

```

<script>
// JavaScript code to Segregate 0s and 1s in an array

// Function to segregate 0s and 1s
function segregate0and1(arr, n)
{
    let count = 0; // Counts the no of zeros in arr

    for (let i = 0; i < n; i++) {
        if (arr[i] == 0)
            count++;
    }

    // Loop fills the arr with 0 until count
    for (let i = 0; i < count; i++)
        arr[i] = 0;

    // Loop fills remaining arr space with 1
    for (let i = count; i < n; i++)

```



```
        arr[i] = 1;
    }

    // Function to print segregated array
    function print(arr, n)
    {
        document.write("Array after segregation is ");

        for (let i = 0; i < n; i++)
            document.write(arr[i] + " ");
    }

    // Driver function

    let arr = [ 0, 1, 0, 1, 1, 1 ];
    let n = arr.length;

    segregate0and1(arr, n);
    print(arr, n);

    // This code is contributed by Surbhi Tyagi

</script>
```



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Method 1 traverses the array two times. Method 2 does the same in a single pass.

Method 2 (Use two indexes to traverse)

Maintain two indexes. Initialize the first index *left* as 0 and second index *right* as n-1.

Do following while *left* < *right*

- Keep incrementing index *left* while there are 0s at it
- Keep decrementing index *right* while there are 1s at it
- If *left* < *right* then exchange arr[*left*] and arr[*right*]

Implementation:



```
// C++ program to sort a binary array in one pass
#include <bits/stdc++.h>
using namespace std;

/*Function to put all 0s on left and all 1s on right*/
void segregate0and1(int arr[], int size)
{
    /* Initialize left and right indexes */
    int left = 0, right = size-1;

    while (left < right)
    {
        /* Increment left index while we see 0 at left */
        while (arr[left] == 0 && left < right)
            left++;

        /* Decrement right index while we see 1 at right */
        while (arr[right] == 1 && left < right)
            right--;

        /* If left is smaller than right then there is a 1 at left
        and a 0 at right. Exchange arr[left] and arr[right]*/
        if (left < right)
        {
            arr[left] = 0;
            arr[right] = 1;
        }
    }
}
```



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```
/* Driver code */
int main()
{
    int arr[] = {0, 1, 0, 1, 1, 1};
    int i, arr_size = sizeof(arr)/sizeof(arr[0]);

    segregate0and1(arr, arr_size);

    cout << "Array after segregation ";
    for (i = 0; i < 6; i++)
        cout << arr[i] << " ";
    return 0;
}

// This code is contributed by rathbhupendra
```




```
// C program to sort a binary array in one pass
#include<stdio.h>

/*Function to put all 0s on left and all 1s on right*/
void segregate0and1(int arr[], int size)
{
    /* Initialize left and right indexes */
    int left = 0, right = size-1;

    while (left < right)
    {
        /* Increment left index while we see 0 at left */
        while (arr[left] == 0 && left < right)
            left++;

        /* Decrement right index while we see 1 at right */
        while (arr[right] == 1 && left < right)
            right--;

        /* If left is smaller than right then there is a 1 at left
        and a 0 at right. Exchange arr[left] and arr[right]*/
        if (left < right)
        {
            arr[left] = 0;
            arr[right] = 1;
            left++;
        }
    }
}
```



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```
/* driver program to test */
int main()
{
    int arr[] = {0, 1, 0, 1, 1, 1};
    int i, arr_size = sizeof(arr)/sizeof(arr[0]);

    segregate0and1(arr, arr_size);

    printf("Array after segregation ");
    for (i = 0; i < 6; i++)
        printf("%d ", arr[i]);

    getchar();
    return 0;
}
```



class Segregate

```

{
    /*Function to put all 0s on left and all 1s on right*/
    void segregate0and1(int arr[], int size)
    {
        /* Initialize left and right indexes */
        int left = 0, right = size - 1;

        while (left < right)
        {
            /* Increment left index while we see 0 at left */
            while (arr[left] == 0 && left < right)
                left++;

            /* Decrement right index while we see 1 at right */
            while (arr[right] == 1 && left < right)
                right--;

            /* If left is smaller than right then there is a 1 at left
            and a 0 at right. Exchange arr[left] and arr[right]*/
            if (left < right)
            {
                arr[left] = 0;
                arr[right] = 1;
                left++;
                right--;
            }
        }
    }
}

```



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```

public static void main(String[] args)
{
    Segregate seg = new Segregate();
    int arr[] = new int[]{0, 1, 0, 1, 1, 1};
    int i, arr_size = arr.length;

    seg.segregate0and1(arr, arr_size);

    System.out.print("Array after segregation is ");
    for (i = 0; i < 6; i++)
        System.out.print(arr[i] + " ");
}
}

```

Python



Python program to sort a binary array in one pass

```

# Function to put all 0s on left and all 1s on right
def segregate0and1(arr, size):

```

```

# Initialize left and right indexes
left, right = 0, size-1

while left < right:
    # Increment left index while we see 0 at left
    while arr[left] == 0 and left < right:
        left += 1

    # Decrement right index while we see 1 at right
    while arr[right] == 1 and left < right:
        right -= 1

    # If left is smaller than right then there is a 1 at left
    # and a 0 at right. Exchange arr[left] and arr[right]
    if left < right:
        arr[left] = 0
        arr[right] = 1
        left += 1
        right -= 1

return arr

# driver program to test
arr = [0, 1, 0, 1, 1, 1]
arr_size = len(arr)
print("Array after segregation")

```



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C#

```

// C# program to sort a binary array in one pass
using System;

class Segregate
{
    /*Function to put all 0s on
    left and all 1s on right*/
    void segregate0and1(int []arr, int size)
    {
        /* Initialize left and right indexes */
        int left = 0, right = size - 1;

        while (left < right)
        {
            /* Increment left index while
            we see 0 at left */
            while (arr[left] == 0 && left < right)
                left++;

```



```

    /* Decrement right index while
       we see 1 at right */
    while (arr[right] == 1 && left < right)
        right--;

    /* If left is smaller than right then
       there is a 1 at left and a 0 at right.
       Exchange arr[left] and arr[right]*/
    if (left < right)
    {
        arr[left] = 0;
        arr[right] = 1;
        left++;
        right--;
    }
}

/* Driver Program to test above functions */
public static void Main()
{
    Segregate seg = new Segregate();
    int []arr = new int[]{0, 1, 0, 1, 1, 1};
    int i, arr_size = arr.Length;

```



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```

Console.Write(arr[i] + " ");

```

```

}
}

```

//This code is contributed by vt_m.

PHP

```

<?php
// PHP program to sort a
// binary array in one pass

// Function to put all 0s on
// left and all 1s on right
function segregate0and1(&$arr, $size)

    // Initialize left and
    // right indexes
    $left = 0;
    $right = $size - 1;

```

```

while ($left < $right)
{
    // Increment left index
    // while we see 0 at left
    while ($arr[$left] == 0 &&
        $left < $right)
        $left++;

    // Decrement right index
    // while we see 1 at right
    while ($arr[$right] == 1 &&
        $left < $right)
        $right--;

    // If left is smaller than right
    // then there is a 1 at left
    // and a 0 at right. Exchange
    // arr[left] and arr[right]
    if ($left < $right)
    {
        $arr[$left] = 0;
        $arr[$right] = 1;
        $left++;
        $right--;
    }
}

```



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```

$arr = array(0, 1, 0, 1, 1, 1);
$arr_size = sizeof($arr);

segregate0and1($arr, $arr_size);

printf("Array after segregation is ");
for ($i = 0; $i < 6; $i++)
    echo ($arr[$i]. " ");

// This code is contributed
// by Shivi_Aggarwal
?>

```

Javascript



script>

// Javascript program to sort a binary array in one pass

/*Function to put all 0s on left and all 1s on right*/

```

function segregate0and1(arr, size)
{
    /* Initialize left and right indexes */
    let left = 0, right = size-1;

    while (left < right)
    {
        /* Increment left index while we see 0 at left */
        while (arr[left] == 0 && left < right)
            left++;

        /* Decrement right index while we see 1 at right */
        while (arr[right] == 1 && left < right)
            right--;

        /* If left is smaller than right then there is a 1 at left
        and a 0 at right. Exchange arr[left] and arr[right]*/
        if (left < right)
        {
            arr[left] = 0;
            arr[right] = 1;
            left++;
            right--;
        }
    }
}

```



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```

segregate0and1(arr, arr_size);

document.write("Array after segregation ");
for (i = 0; i < 6; i++)
    document.write(arr[i] + " ");

</script>

```

Output:

Array after segregation is 0 0 1 1 1 1

Time Complexity: $O(n)$



Another approach :

1. Take two pointer type0(for element 0) starting from beginning (index = 0) and type1(for element 1) starting from end (index = array.length-1).

Initialize type0 = 0 and type1 = array.length-1

2. It is intended to Put 1 to the right side of the array. Once it is done, then 0 will definitely towards the left side of the array.

C++

```
// C++ program to sort a
// binary array in one pass
#include <bits/stdc++.h>
using namespace std;

/*Function to put all 0s on
left and all 1s on right*/
void segregate0and1(int arr[],
                    int size)
{
    int type0 = 0;
    int type1 = size - 1;

    while(type0 < type1)
    {
        if(arr[type0] == 1)
        {
            swap(arr[type0],
```



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```
        type0++;
    }
}

// Driver Code
int main()
{
    int arr[] = {0, 1, 0, 1, 1, 1};
    int i, arr_size = sizeof(arr) /
                      sizeof(arr[0]);

    segregate0and1(arr, arr_size);

    cout << "Array after segregation is ";
    for (i = 0; i < arr_size; i++)
        cout << arr[i] << " ";

    return 0;
```



Java

```
// Java code to segregate 0 and 1
import java.util.*;

class GFG{
/**
Method for segregation 0 and 1 given input array
*/
static void segregate0and1(int arr[]) {
    int type0 = 0;
    int type1 = arr.length - 1;

    while (type0 < type1) {
        if (arr[type0] == 1) {
            // swap
            arr[type1] = arr[type1]+ arr[type0];
            arr[type0] = arr[type1]-arr[type0];
            arr[type1] = arr[type1]-arr[type0];
            type1--;
        } else {
            type0++;
        }
    }
}
```



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```
public static void main(String[] args) {
    int[] array = {0, 1, 0, 1, 1, 1};

    segregate0and1(array);

    for(int a : array){
        System.out.print(a+" ");
    }
}
```

Python3

```
# Python program to sort a
# binary array in one pass

# Function to put all 0s on
# left and all 1s on right
def segregate0and1(arr, size):
```



```

type0 = 0
type1 = size - 1

while(type0 < type1):
    if(arr[type0] == 1):
        (arr[type0],
         arr[type1]) = (arr[type1],
                        arr[type0])
        type1 -= 1
    else:
        type0 += 1

# Driver Code
arr = [0, 1, 0, 1, 1, 1]
arr_size = len(arr)
segregate0and1(arr, arr_size)
print("Array after segregation is",
      end = " ")
for i in range(0, arr_size):
    print(arr[i], end = " ")

# This code is contributed
# by Shivi_Aggarwal

```



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```

using System;

class GFG {

// Method for segregation 0
// and 1 given input array
static void segregate0and1(int[] arr)
{
    int type0 = 0;
    int type1 = arr.Length - 1;

    while (type0 < type1)
    {
        if (arr[type0] == 1)
        {
            // swap
            arr[type1] = arr[type1] + arr[type0];
            arr[type0] = arr[type1] - arr[type0];
            arr[type1] = arr[type1] - arr[type0];
            type1--;
        }
    }
}

```



```

        else
        {
            type0++;
        }
    }

}

// Driver Code
public static void Main(string[] args)
{
    int[] array = new int[] {0, 1, 0, 1, 1, 1};
    segregate0and1(array);

    Console.WriteLine("Array after segregation is ");
    foreach (int a in array)
    {
        Console.Write(a + " ");
    }
}
}

// This code is contributed by Shrikant13

```



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```

// PHP program to sort a
// binary array in one pass

// Function to put all 0s on
// left and all 1s on right
function segregate0and1(&$arr , $size)
{
    $type0 = 0;
    $type1 = $size - 1;

    while($type0 < $type1)
    {
        if($arr[$type0] == 1)
        {
            $temp = $arr[$type0];
            $arr[$type0] = $arr[$type1];
            $arr[$type1] = $temp;
            $type1--;
        }
        else
            $type0++;
    }
}

```



```

}

// Driver Code
$arr = array(0, 1, 0, 1, 1, 1);
$arr_size = sizeof($arr);

segregate0and1($arr, $arr_size);

echo ("Array after segregation is ");
for ($i = 0; $i < $arr_size; $i++)
    echo ($arr[$i] . " ");

// This code is contributed
// by Shivi_Aggarwal
?>

```

Javascript

```

<script>

// Javascript program to sort a
// binary array in one pass

// Function to put all 0s on

```



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```

let type1 = size - 1;

while (type0 < type1)
{
    if (arr[type0] == 1)
    {

        // Swap
        arr[type1] = arr[type1] + arr[type0];
        arr[type0] = arr[type1] - arr[type0];
        arr[type1] = arr[type1] - arr[type0];
        type1--;
    }
    else
        type0++;
}
}

```



Driver Code

```

let arr = [ 0, 1, 0, 1, 1, 1 ];
let i, arr_size = arr.length;

```

```
segregate0and1(arr, arr_size);

document.write("Array after segregation is ");
for(i = 0; i < arr_size; i++)
    document.write(arr[i] + " ");

// This code is contributed by subhammahato348

</script>
```

Output:

Array after segregation is 0 0 1 1 1 1

Time complexity: $O(n)$

// Thanks [san4net](#) for suggesting this method.

Segregate 0s and 1s in an array | GeeksforGeeks



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