**6 kyu**

**Data Reverse**

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C#

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A stream of data is received and needs to be reversed.

Each segment is 8 bits long, meaning the order of these segments needs to be reversed, for example:

11111111 00000000 00001111 10101010

(byte1) (byte2) (byte3) (byte4)

should become:

10101010 00001111 00000000 11111111

(byte4) (byte3) (byte2) (byte1)

The total number of bits will always be a multiple of 8.

The data is given in an array as such:

[1,1,1,1,1,1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,1,1,1,1,1,0,1,0,1,0,1,0]

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int[] DataReverse(int[] arr)

{

int n = arr.Length - 1;

int i = 0, j = n;

int ini = n - 7;

int a = ini;

int cont = 0;

while (i < arr.Length/2)

{

int temp = arr[i];

arr[i] = arr[a];

arr[a] = temp;

i++;

a++;

cont++;

if (cont >= 8)

{

//j++;

ini -= 8;

a = ini;

cont = 0;

}

}

return arr;

}

static void Main(string[] args)

{

// int[] arr = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 };

int[] arr = {1, 2, 3, 4, 5, 6, 7, 8,

9,10,11,12,13,14,15,16,

17,18,19,20,21,22,23,24,

25,26,27,28,29,30,31,32};

DataReverse(arr);

Console.ReadLine();

}

}

}