**Merge two strings**

Submissions: [7904](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2619)  Accuracy:

39.29%

   Difficulty: [Basic](https://practice.geeksforgeeks.org/Basic/0/0/)   Marks: 1

Associated Course(s): [Interview Preparation](https://practice.geeksforgeeks.org/courses/interview-preparation/)

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Given two strings **S1** and **S2** as input, the task is to merge them alternatively i.e. the first character of S1 then the first character of S2 and so on till the strings end.

**NOTE:** Add the whole string if other string is empty.

**Input:**  
The first line of input contains an integer**T** denoting the number of test cases. Then **T** test cases follow. Each test case contains two strings**S1 and S2**.

**Output:**  
For each test case, in a new line, print the merged string.

**Constraints:**  
1 <= T <= 100  
1 <= |S1|, |S2| <= 104

**Example:**  
**Input:**  
2  
Hello Bye  
abc def

**Output:**  
HBeylelo  
adbecf

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/merge-two-strings/0/?ref=self#ExpectOP) option \*\*

Contributor: Arun Tyagi  
[Author: arun03](https://auth.geeksforgeeks.org/user/arun03/practice/)

<https://practice.geeksforgeeks.org/problems/merge-two-strings/0/?ref=self>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp3

{

class Program

{

static void MergeStrings(string a, string b)

{

int i = 0, j = 0;

while (i < a.Length && j < b.Length)

{

Console.Write(a[i] + "" + b[j]);

i++;

j++;

}

while (i < a.Length)

{

Console.Write(a[i]);

i++;

}

while (j < b.Length)

{

Console.Write(b[j]);

j++;

}

}

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while(t-- > 0)

{

string[] input = Console.ReadLine().Trim().Split(' ');

MergeStrings(input[0], input[1]);

Console.WriteLine();

}

Console.ReadLine();

}

}

}