

Join String

```
1 str1 = 'ABC'
2 str2 = '123'
3 # DESIRED OUTPUT = A1B2C3
```

```
1 # Solution 1
2 output = []
3 i = 0
4
5 for a in str1:
6     output.append(a)
7     while 1< len(str2):
8         output.append(str2[i])
9         i += 1
10    break
11
12 str_output = ''.join(output)
13 print(f'----> {str_output}')
```

 ----> A1B2C3

```
1 # Solution 2
2 output1 = []
3 str_output1 = ''.join(output)
4 idx = 0
5
6 for i in str1:
7     output1.append(str1[idx])
8     output1.append(str2[idx])
9     idx += 1
10
11 print(f'----> {str_output1}')
```

----> A1B2C3

```
1 # Solution 3
2 output2 = ''
3
4 for i in range(len(str1)):
5     output2 += str1[i] + str2[i]
6 output2.strip()
7
8 print(f'----> {output2}')
```

```
----> A1B2C3
```

```
1 # Solution 4
2 output3 = ''
3
4 for (a, b) in zip(str1, str2):
5     output3 += a + b
6
7 print(f'----> {output3}')
```

```
----> A1B2C3
```

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