

Question1. Create a function that takes three arguments a, b, c and returns the sum of the numbers that are evenly divided by c from the range a, b inclusive.

Examples

```
evenly_divisible(1, 10, 20) → 0  
# No number between 1 and 10 can be evenly divided by 20.  
  
evenly_divisible(1, 10, 2) → 30  
# 2 + 4 + 6 + 8 + 10 = 30  
  
evenly_divisible(1, 10, 3) → 18  
# 3 + 6 + 9 = 18
```

Question2. Create a function that returns True if a given inequality expression is correct and False otherwise.

Examples

```
correct_signs("3 < 7 < 11") → True  
correct_signs("13 > 44 > 33 > 1") → False  
correct_signs("1 < 2 < 6 < 9 > 3") → True
```

Question3. Create a function that replaces all the vowels in a string with a specified character.

Examples

```
replace_vowels("the aardvark", "#") → "th# ##rdv#rk"  
replace_vowels("minnie mouse", "?") → "m?nn?? m??s?"  
replace_vowels("shakespeare", "*") → "sh*k*sp**r**"
```

Question4. Write a function that calculates the **factorial** of a number **recursively**.

Examples

```
factorial(5) → 120  
factorial(3) → 6  
factorial(1) → 1  
factorial(0) → 1
```

Question 5

Hamming distance is the number of characters that differ between two strings.

To illustrate:

```
String1: "abcbba"  
String2: "abcbda"
```

Hamming Distance: 1 - "b" vs. "d" is the only difference.

Create a function that computes the **hamming distance** between two strings.

Examples

```
hamming_distance("abcde", "bcdef") → 5
```

```
hamming_distance("abcde", "abcde") → 0
```

```
hamming_distance("strong", "strung") → 1
```