

$\text{freqA} =$ $26 \times \begin{bmatrix} [1 \ 0 \ 1 \ 0 \ 1] \\ \vdots \\ [0 \ 1 \ 0 \ 0] \end{bmatrix}$ 26 Row
 freqB n Column

```

// [strA[i] - 'a'] assign each character
// and increment its frequency
for (int i = 0; i < n; i++) {
    frequencyA[strA[i] - 'a'][i + 1]++;
    frequencyB[strB[i] - 'a'][i + 1]++;
}

```

- each char have ASCII you subtract it from ASCII of A to get the index of it in the matrix $0 \rightarrow 25$
- increment the freq in the matrix

```

// Compute prefix sums for both frequency tables
for (int ch = 0; ch < 26; ch++) {
    for (int i = 1; i <= n; i++) {
        frequencyA[ch][i] += frequencyA[ch][i - 1];
        frequencyB[ch][i] += frequencyB[ch][i - 1];
    }
}

```

Compute Prefix Sum for each row in the two matrices

```
for (int ch = 0; ch < 26; ch++) {  
    int countB = frequencyB[ch][right + 1] - frequencyB[ch][left];  
    int countA = frequencyA[ch][right + 1] - frequencyA[ch][left];  
    int difference = countB - countA;  
  
    if (difference > 0) {  
        operationsRequired += difference;  
    }  
}
```

COUNT The APPEARANCE of each letter in 26 in the range of the query

→ number of operation is The Positive difference