Caesar Cipher

```
#include <bits/stdc++.h>
using namespace std;
string ltrim(const string &);
string rtrim(const string &);
/*
 * Complete the 'caesarCipher' function below.
 * The function is expected to return a STRING.
 * The function accepts following parameters:
 * 1. STRING s
 * 2. INTEGER k
 */
string caesarCipher(string s, int k) {
    k = k % 26;
    for (int i = 0; i < s.size(); i++) {</pre>
        if (s[i] >= 'a' \&\& s[i] <= 'z') {
            s[i] = (s[i] - 'a' + k) % 26 + 'a';
        else if (s[i] >= 'A' \&\& s[i] <= 'Z') {
            s[i] = (s[i] - 'A' + k) % 26 + 'A';
        }
    }
    return s;
}
int main()
{
    ofstream fout(getenv("OUTPUT PATH"));
    string n temp;
    getline(cin, n temp);
    int n = stoi(ltrim(rtrim(n temp)));
    string s;
    getline(cin, s);
    string k temp;
```

```
getline(cin, k_temp);
    int k = stoi(ltrim(rtrim(k temp)));
    string result = caesarCipher(s, k);
    fout << result << "\n";</pre>
    fout.close();
    return 0;
}
string ltrim(const string &str) {
    string s(str);
    s.erase(
        s.begin(),
        find if(s.begin(), s.end(), not1(ptr fun<int,</pre>
int>(isspace)))
    );
    return s;
}
string rtrim(const string &str) {
    string s(str);
    s.erase(
        find if(s.rbegin(), s.rend(), not1(ptr fun<int,</pre>
int>(isspace))).base(),
        s.end()
    );
   return s;
}
```