//Naïve string matching Algo

#include <iostream>

#include <string>

using namespace std;

void naive\_string\_matching(string text, string pattern) {

    int n = text.length();

    int m = pattern.length();

*// Iterate through each character in the text*

    for (int i = 0; i <= n - m; i++) {

        int j;

*// Check if the current substring of text matches the pattern*

        for (j = 0; j < m; j++) {

            if (text[i+j] != pattern[j])

                break;

        }

*// If the entire pattern was matched, print the starting index*

        if (j == m)

            cout << "Pattern found at index " << i << endl;

    }

}

int main() {

    string text, pattern;

*// Get input from the user*

    cout << "Enter the text: ";

    getline(cin, text);

    cout << "Enter the pattern to match: ";

    getline(cin, pattern);

*// Call the naive string matching function*

    naive\_string\_matching(text, pattern);

    return 0;

}

Text

Description automatically generated