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/* C program for Brute Force algorithm for pattern matching */

#include <stdio.h>
#include <string.h>

void Brute_Force_Algorithm(char* t, char* p)
{
    int i, j, m, n, flag;
    m = strlen(p);
    n = strlen(t);
    for ( i = 0; i <= n- m; i++ ) {
        for ( j = 0; j < m; j++ ) {
            if ( p[j] != t[i+j])
                break;
        }
        if ( j == m ) {
            printf("\nPattern matches at index %d", i);
            flag = 1;
        }
    }
    if ( flag == 0 )
        printf("\nPattern not found\n");
}

int main()
{
    char t[] = "badbababababaab";
    char p[] = "abab";
    Brute_Force_Algorithm(t, p);
    return 0;
}

/*
    OUTPUT

    Pattern matches at index 4
    Pattern matches at index 6
    Pattern matches at index 8

*/

```