**Z Algorithm**

#include <bits/stdc++.h>

int zAlgorithm(string s, string p, int n, int m)

{

int count=0;

int index=0;

while(1){

index=s.find(p);

if (index >= 0 && index <= s.length() - 1) {

count++;

s[index] = '1';

}

else{

break;

}

}

return count;

}