**Problem:**

You have been given two strings, A and B (of length N each) and Q queries.  
The strings contain only 0s and/or 1s.

For every query, you are given an index i. You have to update the value at index i to 1 in string B and check if B is lexicographically equal to or larger than A or not.  
If yes, then print "YES" and if not, print "NO" (without quotes).

**Description:**

In the given program we take two integers and two strings as input. We compare the two strings and print “YES” if they are equal else “NO”.

**Input and Output:**

First line contains two space-separated integers *N* and *Q*. Next line contains the string *A*. Next line contains the string *B*.

Output: For each query, print the desired output in a new line.

**Code:**

li=list(map(int,input().split()))

n=li[0]

q=li[1]

a=input()

b=input()

def truthvalue(a,b,n,q):

x=int(a,2)

y=int(b,2)

for i in range(0,q):

if(y>=x):

print("YES")

else :

b=list(b)

if b[i]=='0':

b[i]='1'

b="".join(b)

y=int(b,2)

if(y>=x):

print("YES")

else :

print("NO")

else :

print("NO")

truthvalue(a,b,n,q)

**Sample input:**

5 5

11111

00010

**Sample output:**

NO

NO

NO

NO

YES

**Time Complexity:**

The time complexity of this program is O(n).