**Brute Force Solution – 50%**

n, t = map(int, input().split())

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

arr = [0]\*t

for el in l:

arr[el] = 1

arrDouble = arr+arr

for i in range(1,t+1):

if arr==arrDouble[i:i+t]:

break

print(i-1)

**Proper Solution – 100%**

n, t = map(int, input().split())

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

gaps = [0]\*n

for i in range(n-1):

gaps[i] = l[i+1]-l[i]

gaps[n-1]=l[0]+t-l[n-1]

gapsDouble = gaps + gaps

s = 0

for i in range(1,n+1):

s += gaps[i-1]

if gaps==gapsDouble[i:i+n]:

break

print(s-1)