Problem Link:

https://www.codechef.com/JUNE222D/problems/STRNG

Code: C++

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#include <bits/stdc++.h>
#include <iostream>
using namespace std;
void fillPrefixSuffix(int prefix[],int arr[],int suffix[],int n)
  prefix[0] = arr[0];
  for(int i=1;i< n;i++)
     prefix[i] = __gcd(prefix[i-1],arr[i]);
  suffix[n-1] = arr[n-1];
  for(int i=n-2; i>=0; i--)
         suffix[i] = __gcd(suffix[i+1],arr[i]);
int GCDoutsideRange(int 1,int r,int prefix[],int suffix[],int n){
        return suffix[r+1];
 if(r==(n-1))
        return prefix[1-1];
 return __gcd(prefix[l-1],suffix[r+1]);
int main() {
 // your code goes here
 int t;
 cin>>t;
 while(t--){
        int n;
        cin>>n;
        int prefix[n] , suffix[n];
        int arr[n];
        for(int i=0;i< n;i++)
        cin>>arr[i];
        fillPrefixSuffix(prefix,arr,suffix,n);
        int ans = 0;
        for(int i = 0; i < n; i++){
                if(GCDoutsideRange(i,i,prefix,suffix,n)>1){ ans++; }
         cout<<ans<<endl;
 return 0;
```