Problem:

https://www.codechef.com/LTIME109D/submit/EQBYXOR

```
Code: C++
```

```
#include <bits/stdc++.h>
using namespace std;
#define ll long long int
int main(){
 ll t;
 cin>>t;
 while(t--){
   ll x,y,n;
    cin>>x>>y>>n;
   if(x==y)
     cout<<"1"<<endl;
    }
    else{
     ll a=x xor y;
     if(a < n){
        cout<<"1"<<endl;
      }
     else{
       if(log(a) == log(n)){
         if(n&(n-1)){
           cout<<"2"<<endl;
          }
         else{
           cout<<"-1"<<endl;
        }
        else{
         cout<<"-1"<<endl;
        }
 return 0;
```