# GCD

1061

#include<bits/stdc++.h>

using namespace std;

long long extend\_gcd(long long a,long long b,long long &x,long long &y){

if(b==0){

x=1;

y=0;

return a;

}

long long ans=extend\_gcd(b,a%b,x,y);

long long tmp=x;

x=y;

y=tmp-a/b\*y;

return ans;

}

long long cal(long long a,long long b,long long c){

long long x,y;

long long gcd=extend\_gcd(a,b,x,y);

if(c%gcd!=0) return -1;

x\*=c;

x/=gcd;

b/=gcd;

if(b<0) b=-b;

long long ans=x%b;

if(ans<=0) ans+=b;

return ans;

}

int main(){

//freopen("data.in","r",stdin);

long long x,y,m,n,L;

while(scanf("%lld%lld%lld%lld%lld",&x,&y,&m,&n,&L)!=EOF) {

long long ans=cal(m-n,L,y-x);

if(ans==-1) printf("Impossible\n");

else printf("%lld\n",ans);

}

return 0;

}