#include <bits/stdc++.h>

using namespace std;

typedef long long ll;

typedef vector<ll> vl ;

#define mp make\_pair

#define pb push\_back

#define f first

#define s second

#define all(v) (v).begin(),(v).end()

const int MOD = 998244353;

const int N = 10000005;

const double PI =4\*atan(1);

ll a,b,c,d,m,x,y;

ll tab[N];

ll u[N];

ll \_sieve\_size;bitset<10000010> bs;

void sieve(ll upperbound) {

\_sieve\_size = upperbound + 1;bs.set();bs[0] = bs[1] = 0;

u[1]=1;

for (ll i = 2; i <= \_sieve\_size; i++) if (bs[i]) {

u[i]=-1;

for (ll j = 2\*i; j <= \_sieve\_size; j += i) {

bs[j]=0;

if(j%(i\*i)==0)u[j]=0;

u[j]\*=u[i];}

}

}

int main(){

ios::sync\_with\_stdio(0);

cin >> a >> b >> c >> d;

for(int i=1;i<=10000000;i++){

u[i]=1;

}

sieve(10000001);

ll ans,res;

ans=0;

for(int i=1;i<=b;i++){

ll x=b/i;

ll y=(a-1)/i;

ans += (y-x)\*u[i] \*((c-1)/i-(d)/i);

}

cout << ans;

return 0;

}