**Modular Exponentiation**

#include <bits/stdc++.h>

int modularExponentiation(int x, int n, int m) {

// Write your code here.

int ans =1;

while(n){

if(n&1) ans=(1LL \* ans\* x%m )%m;

x=(1LL \* x%m \* x%m ) % m;

n >>= 1;

}

return ans;

}