//Bigmod, Pow

//Complexity : O(logN)

// (2^10 % 5) = powMod(2, 10, 5)

long long powMod(long long N, long long P, long long M)

{

if(P==0)

return 1;

if(P%2==0) {

long long ret = powMod(N, P/2, M)%M;

return (ret \* ret)%M;

}

else

return ((N%M) \* (powMod(N, P-1, M)%M))%M;

}

// 2^100 = Pow(2, 100)

unsigned long long Pow(unsigned long long N, unsigned long long P)

{

if(P == 0)

return 1;

if(P % 2 == 0)

{

unsigned long long ret = Pow(N, P/2);

return ret\*ret;

}

else

return N \* Pow(N, P-1);

}

int main()

{

return 0;

}