#define mem(x, y) memset(x,y,sizeof(x))

#define CLEAR(x) memset(x,0,sizeof(x))

#define pb push\_back

#define Sort(v) sort(v.begin(),v.end())

#define \_sort(s, n) sort(s, s+n)

#define sqr(x) ((x)\*(x))

#define le 5005

#define ERR 1e-9

#define pi (2\*acos(0))

#define PI 3.141592653589793

#define INT\_MX 2147483647

#define scanint(a) scanf("%d",&a)

#define scanLLD(a) scanf("%lld",&a)

#define READ(in) freopen(in, "r", stdin);

#define WRITE(out) freopen(out, "w", stdout);

typedef long long ll;

using namespace std;

////////////////////////////////////////

const int mx = 1e5;

int main() {

}