Code-

```cpp
#include <bits/stdc++.h>
using namespace std;
#define ll long long
#define all(a) a.begin(),a.end()
#define for0(i,n) for(int i=0;i<n;i++)
#define for1(i,n) for(int i=1;i<=n;i++)
#define loop(i,a,b) for(int i=a;i<=b;i++)
#define rloop(i,a,b) for(int i=a;i>=b;i--)
#define fi first
#define nd second
#define int long long
#define pi pair<int, int>
#define vi vector<int>
#define vii vector<pi>
#define maxpq priority_queue<int>
#define minpq priority_queue<int, vi, greater<int> >
#define cy cout << "YES" << endl
#define cn cout << "NO" << endl
#define pb push_back
const int mod = (int )1e9 + 7;


long long power(int N,int R)
{
  //Your code here
  if(R == 0) return 1;


  long long ans = 1;
```

```cpp
        long long know = power(N, R/2)%mod;
        if(R%2) ans = N;
        return (ans*((know*know)%mod))%mod;
    }


    void test_cases(){
        int n, m;
        cin >> n >> m;
        vi p(n);
        for0(i, n) cin >> p[i];
        vi arr(n);
        for0(i, n) cin >> arr[i];


        int val = INT_MIN;
        int cnt = 0;
        int totalzero = 0;
        int zero = 0;
        set<int> values;
        for0(i, n){
            if(p[i] - 1 >= i){
                if(arr[p[i] - 1] == 0) zero++;
                else values.insert(arr[p[i] - 1]);
            }
            if(arr[i] == 0) totalzero++;
        }


        if(values.size() > 1) {
            cout << 0 << endl;
            return;
        }
```

```cpp
    // if(zero > 0 && values.size() > 1 && (*(values.begin())) > m) {
    //     cout << 0 << endl;
    //     return;
    // }
    int ans;

    if(values.size() == 0){
        ans = power(m, totalzero - zero + 1);
    }
    else ans = power(m, totalzero - zero);

    cout << ans << endl;

}

signed main(){
#ifndef ONLINE_JUDGE
    //for getting input from input.txt
    freopen("input.txt", "r", stdin);
    //for writing output to output.txt
    freopen("output.txt", "w", stdout);
#endif

    ll t = 1;
    cin >> t;
    while(t--){
        test_cases();
    }
    return 0;
}
```

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Statement   Hints   **Submissions**   Solution

C++17

```
21
22  void precalc() {
23  }
24
25  void solve(int num_t) {
26      int n;
27      ll m;
28      cin >> n >> m;
29      vector<int> p(n), a(n);
30      for (int i = 0; i < n; ++i) {
```
73:1

Explained codes

ID	Result	Lang	Author	Popularity	
92840074	✓	PYTH 3	2★ rmsriram	0	→
92799965	✓	C++17	3★ uzuhanarusuke	3	→

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ID	Result	Time	Mem	Lang	Date	
92975764	✓	0.08s	5M	C++17	26 seconds ago	→
92975700	⚠	0.00s	0M	C++17	1 minute ago	→
92975509	⚠	0.00s	0M	PYTH 3	4 minutes ago	→

1-3 of 3   ‹   ›

Test against Custom Input   ⌃

```
⌃ >
2 1 4 3
0 2 0 2
3 2
3 1 2
```

Problem Solver Badge   **1** / 50   Next Problem

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Status: ✓ Correct Answer   Submission ID: 92975764

Time:
0.08s

Sub-Task	Task #	Result (time)
1	0	AC (0.070139)

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