Problem Link:

<https://leetcode.com/problems/avoid-flood-in-the-city/?envType=daily-question&envId=2025-10-07>

Solution:

class Solution {

public:

vector<int> avoidFlood(vector<int>& rains) {

int n = rains.size();

map<int, int> m;

set<int> s;

vector<int> v(n, 1);

for(int i = 0; i < n; ++i)

{

if(rains[i] > 0)

{

int l = rains[i];

v[i] = -1;

if(m.count(l))

{

int d = m[l];

auto it = s.lower\_bound(d + 1);

if(it == s.end() || \*it >= i)

{

return {};

}

v[\*it] = l;

s.erase(it);

}

m[l] = i;

}

else

{

s.insert(i);

}

}

return v;

}

};