**Worksheet-2.1**

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**Subjetct Code:-** 20CSP-314 **Semester:-** 5th

**Subject Name:-** Competitive Coding Lab

**Problem :- Minimum Loss Problem.**

<https://www.hackerrank.com/challenges/minimum-loss/problem>

**Code:-**

#include <bits/stdc++.h>

using namespace std;

#define int long long

int p[200010];

set<int> s;

signed main() {

int n,ans=1e18;

cin>>n;

for(int i=1;i<=n;++i){

cin>>p[i];

}

for(int i=n;i>0;--i){

if(s.size()&&(\*s.begin())<p[i]){

auto it=s.lower\_bound(p[i]);

--it;

ans=min(ans,p[i]-\*it);

}

s.insert(p[i]);

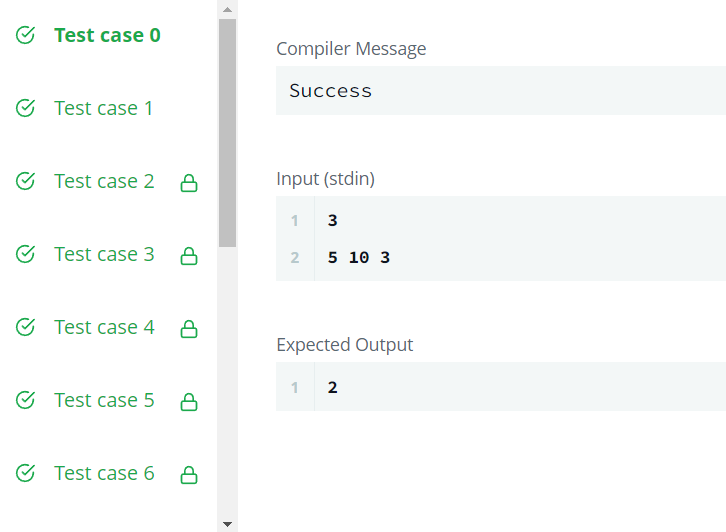
}

cout<<ans;

return 0;

**}**

**Output:-**

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