**<https://www.youtube.com/watch?v=TQAGOHEK28Q&list=PLoa_roVVsxA1CJu4DsOljb9d7FJkMCynM&index=7>**

**L1]Class - 7 ( STL Map & practice problem Part - 2 )[Bangla]**

**Class Video link :**

<https://youtu.be/TQAGOHEK28Q>

**Discussed topics :**

1) STL Map & Practice problems (Part-2)

2) A. Tom Riddle's Diary ( Codeforces )

Link : <https://codeforces.com/contest/855/problem/A>

My Code : <https://codeforces.com/contest/855/submission/88951484>[/](https://paste.ubuntu.com/p/Y2pr7f7ZR8/)

3) C. Registration system ( Codeforces )

Link : <https://codeforces.com/contest/4/problem/C>

My Code :<https://codeforces.com/contest/4/submission/88951974>

4) B. Radio Station ( Codeforces )

Link : <https://codeforces.com/contest/918/problem/B>

My Code : <https://codeforces.com/contest/918/submission/88953078>

5) RPLD - Database ( SPOJ )

Link : <https://www.spoj.com/problems/RPLD/>

My Code : <https://paste.ubuntu.com/p/94F5qxpKwz/>

6) C. Boxes Packing ( Codeforces )

Link : <https://codeforces.com/contest/903/problem/C>

My Code : <https://codeforces.com/contest/903/submission/88977950>

**Class Tasks :**

1) A. Tom Riddle's Diary ( Codeforces )

Link : <https://classroom.google.com/u/0/c/MTE2NTUzNTIxNDIx/a/MTQyMDI5NzUzNzk0/details>

2) C. Registration system ( Codeforces )

Link : <https://classroom.google.com/u/0/c/MTE2NTUzNTIxNDIx/a/MTQyMDI5NzUzODE4/details>

3) B. Radio Station ( Codeforces )

Link :<https://classroom.google.com/u/0/c/MTE2NTUzNTIxNDIx/a/MTQyMDI5NzUzODY4/details>

4) RPLD - Database ( SPOJ )

Link : <https://classroom.google.com/u/0/c/MTE2NTUzNTIxNDIx/a/MTQyMDI5NzUzODc1/details>

5) C. Boxes Packing ( Codeforces )

Link : <https://classroom.google.com/u/0/c/MTE2NTUzNTIxNDIx/a/MTM4NDgzMTQwNzA4/details>

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int n;

cin>>n;

map<string ,bool>m;

**while** (n--){

string s;

cin>>s;

**if**(m[s]==1)cout<<"YES"<<endl;

**else** cout<<"NO"<<endl;

m[s]=1;

}

**return** 0;

}

"C:\Users\Md.Hamid Hosen\CLionProjects\untitled\cmake-build-debug\untitled.exe"

6

tom

lucius

ginny

harry

ginny

harry

NO

NO

NO

NO

YES

YES

Process finished **with** exit code 0

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int n;

cin>>n;

map<string ,bool>m;

**while** (n--){

string s;

cin>>s;

**if**(m[s]>0)cout<<"YES"<<endl;

**else** cout<<"NO"<<endl;

m[s]=1;

}

**return** 0;

}

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6

tom

lucius

ginny

harry

ginny

harry

NO

NO

NO

NO

YES

YES

Process finished **with** exit code 0

**problem link=**[**https://codeforces.com/contest/4/problem/C**](https://codeforces.com/contest/4/problem/C)

**code link=**[**https://codeforces.com/contest/4/submission/88951974**](https://codeforces.com/contest/4/submission/88951974)

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int n;

cin>>n;

map<string ,int>m;

**while** (n--){

string s;

cin>>s;

**if**(m[s]==0)cout<<"OK"<<endl;

**else** cout<<s<<m[s]<<endl;

m[s]++;

}

**return** 0;

}

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4

abacaba

acaba

abacaba

acab

OK

OK

abacaba1

OK

Process finished **with** exit code 0

**problem link=**[**https://codeforces.com/contest/918/problem/B**](https://codeforces.com/contest/918/problem/B)

**code link=**[**https://codeforces.com/contest/918/submission/88953078**](https://codeforces.com/contest/918/submission/88953078)

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int n,m;

cin>>n>>m;

map<string,string>ipName;

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

string name ,ip;

cin>>name>>ip;

ipName[ip]=name;

}

**while** (m--){

string name1,ip1;

cin>>name1>>ip1;

ip1.pop\_back();

cout<<name1<<" "<<ip1<<"; #"<<ipName[ip1]<<endl;

}

**return** 0;

}

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3 5

google 8.8.8.8

codeforces 212.193.33.27

server 138.197.64.57

redirect 138.197.64.57;

block 8.8.8.8;

cf 212.193.33.27;

unblock 8.8.8.8;

check 138.197.64.57;

redirect 138.197.64.57; *#server*

block 8.8.8.8; *#google*

cf 212.193.33.27; *#codeforces*

unblock 8.8.8.8; *#google*

check 138.197.64.57; *#server*

Process finished **with** exit code 0

**problem link=**[**https://www.spoj.com/problems/RPLD/**](https://www.spoj.com/problems/RPLD/)

**code link=**[**https://paste.ubuntu.com/p/94F5qxpKwz/**](https://paste.ubuntu.com/p/94F5qxpKwz/)

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int t;

cin>>t;

**for**(int i=1;i<=t;i++){

int id,code;

cin>>id>>code;

map<pair<int,int>,bool>m;

bool done=1;

**while** (code--){

int a,b;

cin>>a>>b;

**if**(m[{a,b}]) done=0;

m[{a,b}]=1;

}

**if** ( done == 1 ) cout << "Scenario #" << i << ": possible" << endl;

**else** cout << "Scenario #" << i << ": impossible" << endl;

}

**return** 0;

}

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2

2 4

1 6102

1 6103

2 6102

2 6103

2 4

1 6102

1 6102

2 6102

2 6103

Scenario *#1: possible*

Scenario *#2: impossible*

Process finished **with** exit code 0

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

int t;

cin>>t;

**for**(int i=1;i<=t;i++){

int id,code;

cin>>id>>code;

vector<pair<int,int>>p(code);

**for**(int i=0;i<code;i++){

cin>>p[i].first>>p[i].second;

}

sort(p.begin(),p.end());

int s=unique(p.begin(),p.end())-p.begin();

**if**(s==code){

cout << "Scenario #" << i << ": possible" << endl;

}**else**{

cout << "Scenario #" << i << ": impossible" << endl;

}

}

**return** 0;

}

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2

2 4

1 6102

1 6103

2 6102

2 6103

2 4

1 6102

1 6102

2 6102

2 6103

Scenario *#1: possible*

Scenario *#2: impossible*

Process finished **with** exit code 0

**problem link=**[**https://codeforces.com/contest/903/problem/C**](https://codeforces.com/contest/903/problem/C)

**code link=**[**https://codeforces.com/contest/903/submission/88977950**](https://codeforces.com/contest/903/submission/88977950)

*#include <bits/stdc++.h>*

using namespace std;

*#define endl '\n'*

*#define optimeze() ios\_base::sync\_with\_stdio(0);cin.tie(0);cout.tie(0);*

int main()

{

optimeze();

map<int,int>m;

int n;

cin>>n;

int a[n];

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

cin>>a[i];

m[a[i]]++;

}

int c=0;

**for**(int i=0;i<n;i++) c=max(c,m[a[i]]);

cout<<c<<endl;

**return** 0;

}

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4

4 2 4 3

2

Process finished **with** exit code 0