**BACKEND CODE IN C++**

#include<bits/stdc++.h>

using namespace std;

int main()

{

vector<string> days;

days.push\_back("SUNDAY");

days.push\_back("MONDAY");

days.push\_back("TUESDAY");

days.push\_back("WEDNESDAY");

days.push\_back("THURSDAY");

days.push\_back("FRIDAY");

days.push\_back("SATURDAY");

vector<int> slots\_avail;

slots\_avail.push\_back(15);

slots\_avail.push\_back(30);

slots\_avail.push\_back(45);

slots\_avail.push\_back(60);

slots\_avail.push\_back(90);

vector<string> platform;

platform.push\_back("zoom");

platform.push\_back("360");

platform.push\_back("meets");

platform.push\_back("xyz");

vector<vector<pair<pair<string,string>,pair<long,long> > > > vp;

long no\_user;

cin>>no\_user;

while(no\_user--)

{

cout<<"ENTER THE NUMBER OF ATTEMPTS YOU WANT"<<"\n";

long entry;

cin>>entry;

while(entry--)

{

cout<<"HELLO-USER..."<<"\n";

cout<<"CURRENT USERS AVAILABLE...."<<"\n";

cout<<vp.size();

cout<<"\n";

cout<<"SELECT THE OPTIONS: 1 FOR ENTRY 2 FOR SCHEDULING A MEETING WITH ALREADY EXISTING USER FOR THE ABOVE WEEK"<<"\n";

int x;

if(vp.size()==0){

cout<<"YOU ARE THE FIRST USER KINDLY AVAIL OPTION 1"<<"\n";

cin>>x;

if(x==2)

{

cout<<"SORRY"<<"\n";

}

else

{

cout<<"YOUR ID IS "<<" "<<vp.size()+1<<"\n";

cout<<"SELECT THE RESPECTIVE NO FOR THE RESPECTIVE DAY!"<<"\n";

for(long i=0;i<days.size();i++)

{

cout<<days[i]<<" ";

}

cout<<"\n";

int d;

cin>>d;

string str1=days[d-1];

cout<<"\n";

cout<<"SELECT THE RESPRECTIVE NO FOR THE RESPECTIVE PLATFORM"<<"\n";

for(long i=0;i<platform.size();i++)

{

cout<<platform[i]<<" ";

}

cout<<"\n";

string str2;

cin>>d;

str2=platform[d-1];

cout<<"\n";

cout<<"NOW KINDLY THE SELECT THE RESPETIVE SLOT"<<"\n";

for(long i=0;i<slots\_avail.size();i++)

{

cout<<slots\_avail[i]<<" ";

}

cin>>d;

long opt1;

opt1=slots\_avail[d-1];

cout<<"\n";

long opt2;

cout<<"AT LAST KINDLY ENTER THE START TIME IN 24 HR FORMAT"<<"\n";

cin>>opt2;

}

}

else{

cin>>x;

if(x==1)

{

cout<<"YOUR ID IS "<<" "<<vp.size()+1<<"\n";

cout<<"SELECT THE RESPECTIVE NO FOR THE RESPECTIVE DAY!"<<"\n";

for(long i=0;i<days.size();i++)

{

cout<<days[i]<<" ";

}

cout<<"\n";

int d;

cin>>d;

string str1=days[d-1];

cout<<"\n";

cout<<"SELECT THE RESPRECTIVE NO FOR THE RESPECTIVE PLATFORM"<<"\n";

for(long i=0;i<platform.size();i++)

{

cout<<platform[i]<<" ";

}

cout<<"\n";

string str2;

cin>>d;

str2=platform[d-1];

cout<<"\n";

cout<<"NOW KINDLY THE SELECT THE RESPETIVE SLOT"<<"\n";

for(long i=0;i<slots\_avail.size();i++)

{

cout<<slots\_avail[i]<<" ";

}

cin>>d;

long opt1;

opt1=slots\_avail[d-1];

cout<<"\n";

long opt2;

cout<<"AT LAST KINDLY ENTER THE START TIME IN 24 HR FORMAT"<<"\n";

cin>>opt2;

vp.push\_back(make\_pair(str1,str2),make\_pair(opt1,opt2));

}

else

{

cout<<"YOU HAVE CHOSEN TO SCHEDULE A MEETING SO KINDLY ENTER THE ID FOR THE PERSON WITH WHOM YOU WANNA SCHEDULE MEETING"<<"\n";

int pid;

string dy;

string plt;

int d1;

int d2;

cin>>pid;

cout<<"\n";

cout<<"NOW ENTER YOUR CHOSEN DAY"<<"\n";

cin>>dy;

cout<<"NOW SELECT YOUR PLATFORM"<<"\n";

cin>>plt;

cout<<"\n"<<"PLS ENTER YOUR START TIME AND DURATION OF SLOT"<<"\n";

cin>>d1>>d2;

int c=0;

for(long i=0;i<vp[pid].size();i++)

{

if(vp[pid].first.first==dy&&vp[pid].first.second==plt&&d1==vp[pid].second.second&&d2<=vp[pid].second.first)

{

c=1;

cout<<"CONGRATS !! SCHEDULING IS POSSIBLE AND MATCHED"<<"\n";

break;

}

}

if(c==0)

{

cout<<"SCHEULING IS NOT POSSIBLE!!"<<"\n";

}

}

}

}

}

}