#include <iostream>

#include<cstring>

#include<unordered\_map>

using namespace std;

class Student{

public:

string firstname;

string lastname;

string rollno;

Student(string f,string l,string no){

firstname = f;

lastname = l;

rollno = no;

}

bool operator==(const Student &s)const{

return rollno==s.rollno?true:false;

}

};

class Hashfn{

public:

size\_t operator()(const Student &s)const{

return s.firstname.length()+s.lastname.length();

}

};

int main() {

unordered\_map<Student,int,Hashfn>um;

Student s1("Prateek","Narang","010");

Student s2("Rahul","Kumar","023");

Student s3("Prateek","Gupta","030");

Student s4("Rahul","Kumar","120");

um[s1]=100;

um[s2]=120;

um[s3]=11;

um[s4]=45;

//find

cout<<um[s3]<<endl;

for(auto s:um)

{

cout<<s.first.firstname<<" "<<s.first.rollno<<endl

<<"marks "<< s.second<<endl;

}

return 0;

}