#include <iostream>

#include <fstream>

#include <string.h>

using namespace std;

int stari\_tranzitii,nr\_stari\_finale,contor=0;

struct tranz

{

int st\_init;

int nr\_tranzitii;

int \*fin;

char \*litera;

};

tranz \*L;

int \* stf;

void rec(char \*sir,int k ,int stare\_initiala)

{ //cout<<k<<" "<<stare\_initiala<<" ";

if(k<=strlen(sir)-1)

{

for(int i=0; i<stari\_tranzitii; i++)

{

if(L[i].st\_init==stare\_initiala)

{

for(int j=0; j<L[i].nr\_tranzitii; j++)

{

if(L[i].litera[j]==sir[k] && k!=strlen(sir)-1 )

{cout<<stare\_initiala<<" "<<L[i].litera[j]<<" "<<L[i].fin[j]<<endl;

rec(sir,k+1,L[i].fin[j]);

}

if(L[i].litera[j]=='#')

{cout<<stare\_initiala<<" "<<L[i].litera[j]<<" "<<L[i].fin[j]<<endl;

rec(sir,k,L[i].fin[j]);

}

}

}

}

}

else

for(int m=0; m<nr\_stari\_finale; m++)

if(stare\_initiala==stf[m] && contor==0)

{

cout<<"Accepted";

contor=1;

}

/\* for(int i=0; i<stari\_tranzitii; i++)

{

if(L[i].st\_init==stare\_initiala)

for(int j=0; j<L[i].nr\_tranzitii; j++)

for(int m=0; m<nr\_stari\_finale; m++)

if(L[i].fin[j]==stf[m] && contor==0)

{

cout<<"Accepted";

contor=1;

}

}

\*/

}

int main()

{

int nr\_stari,card\_alf,i;

char \*cuv;\*alf,

cuv=new char [20];

ifstream f("automat1.txt");

f>>nr\_stari;

f>>card\_alf;

alf =new char [card\_alf];

for(i=0; i<card\_alf; i++)

f>>alf[i];

f>>nr\_stari\_finale;

stf =new int [nr\_stari\_finale];

for(i=0; i<nr\_stari\_finale; i++)

f>>stf[i];

f>>stari\_tranzitii;

L= new tranz [stari\_tranzitii];

for(i=0; i<stari\_tranzitii; i++)

{

f>>L[i].st\_init;

f>>L[i].nr\_tranzitii;

L[i].litera=new char[L[i].nr\_tranzitii];

L[i].fin=new int [L[i].nr\_tranzitii];

for(int j=0; j<L[i].nr\_tranzitii; j++)

{

f>>L[i].litera[j];

f>>L[i].fin[j];

}

}

/\* for(int i=0; i<stari\_tranzitii; i++)

for(int j=0; j<L[i].nr\_tranzitii; j++)

if(L[i].litera[j]=='#')

for(int m=0; m<nr\_stari\_finale; m++)

if(L[i].fin[j]==stf[m])

{

stf[nr\_stari\_finale] =L[i].st\_init;

nr\_stari\_finale++;

} \*/

gets(cuv);

//cout<<strlen(cuv);

rec(cuv,0,0);

if (contor == 0)

cout<<"Rejected";

}