//1-esep

#include <iostream>  
using namespace std;

char c;  
void E();  
void A();  
void gc()  
{  
//cout << "s-->E/, ";  
cin >> c;  
}  
void s()  
{  
cout << "s-->E/, ";  
E();  
A();  
gc();  
}  
void E()  
{  
if (c == 'A')  
{  
cout << "E-->A ,";  
A();  
gc();  
}  
else if (c == '(')  
{  
cout << "E-->(), ";  
gc();  
  
}  
else if (c == 'E')  
{  
cout << "E-->(E{,E})";  
gc();  
E();  
}  
}  
void A()  
{  
if (c == 'a') {  
cout << "A-->a,";  
gc();  
  
}  
else if (c == 'b') {  
cout << "A-->b,";  
gc();  
  
}  
}  
int main()  
{  
gc();  
s();  
if (c == '/')  
cout << "SUCCESS!!!" << endl;  
return 0;  
}

//2-

#include <iostream>  
using namespace std;  
char c;  
void S();  
void P();  
void I();  
void E();  
void T();  
void F();  
void gc()  
{  
cin >> c;  
}  
void s()  
{  
cout << "s-->P:=E|if E then S|if E then S else S, ";  
S();  
P();  
E();  
I();  
T();  
F();  
gc();  
}  
void S()  
{  
if (c == '1') {  
cout << "s-->P:=E , ";  
P();  
E();  
gc();  
  
}  
else if (c == '2')  
{  
cout << "s-->if E then S, ";  
E();  
//s();  
gc();  
}  
else if (c == '3')  
{  
cout << "s-->if E then S else S";  
E();  
//s();  
gc();  
}  
}  
void P()  
{  
if (c == 'I')  
{  
cout << "P-->I ,";  
I();  
gc();  
}  
else if (c == 'E')  
{  
cout << "P-->I(E) ,";  
I();  
E();  
gc();  
}  
}  
void E()  
{  
if (c == 'T')  
{  
cout << "E-->T{+T} ,";  
T();  
gc();  
}  
}  
void T()  
{  
if (c == 'F')  
{  
cout << "E-->F{\*F},";  
F();  
gc();  
}  
}  
void F()  
{  
if (c == 'P') {  
cout << "F-->P,";  
P();  
gc();

}  
else if (c == 'E') {  
cout << "F-->(E),";  
E();  
gc();

}  
}  
void I()  
{  
if (c == 'a') {  
cout << "I-->a,";  
gc();

}  
else if (c == 'b') {  
cout << "I-->b,";  
gc();

}  
}  
int main()  
{  
gc();  
s();  
if (c == '/')  
cout << "SUCCESS!!!" << endl;  
return 0;  
}

//3-esep

#include <iostream>

using namespace std;

char c;

void T();

void I();

void gc()

{

cin >> c;

}

void s()

{

cout << "s-->type I-T {; I-T}, ";

T();

I();

gc();

}

void T()

{

if (c == '1')

{

cout << "T-->int ,";

gc();

}

else if (c == '2')

{

cout << "T-->record I:T {;I:T} end, ";

gc();

T();

I();

}

}

void I()

{

if (c == 'a') {

cout << "I-->a,";

gc();

}

if (c == 'b') {

cout << "I-->b,";

gc();

}

if (c == 'c') {

cout << "I-->c,";

gc();

}

}

int main()

{

gc();

s();

if (c == '/')

cout << "SUCCESS!!!" << endl;

return 0;

}

//4-esep

#include <iostream>

using namespace std;

char c;

void S();

void P();

void I();

void E();

void T();

void F();

void gc()

{

cin >> c;

}

void s()

{

cout << "s-->P-E|while E do S, ";

S();

P();

E();

I();

T();

F();

gc();

}

void S()

{

if (c == '1')

{

cout << "s-->P-E, ";

P();

E();

gc();

}

else if (c == 'w')

{

cout << "s-->while E do S, ";

E();

//S();

gc();

}

}

void P()

{

if (c == 'I')

{

cout << "P-->I ,";

I();

gc();

}

else if (c == 'E')

{

cout << "T-->I(E{,E}), ";

gc();

T();

I();

E();

}

}

void I()

{

if (c == 'a') {

cout << "I-->a,";

E();

gc();

}

else if (c == 'b') {

cout << "I-->b,";

gc();

}

else if (c == 'c') {

cout << "I-->c,";

gc();

}

}

void E()

{

if (c == '+') {

cout << "E-->E+T,";

//E();

T();

gc();

}

else if (c == 'T') {

cout << "E-->T,";

T();

gc();

}

}

void T()

{

if (c == '\*') {

cout << "T-->T\*F,";

//T();

F();

gc();

}

else if (c == 'F') {

cout << "T-->F,";

F();

gc();

}

}

void F()

{

if (c == 'P') {

cout << "F-->P,";

P();

I();

gc();

}

else if (c == '(') {

cout << "F-->(E),";

E();

gc();

}

}

int main()

{

gc();

s();

if (c == '/')

cout << "SUCCESS!!!" << endl;

return 0;

}