Leading :

#include<stdio.h>

char s[10][100],nt[10];

int check(char a[100])

{

int i,ind=0,c=0;

for(i=0;nt[i];i++){

if(a[3]==nt[i])

c=i;

}

if(c>0)

return check(s[c]);

else{

printf("%c ",a[3]);

for(i=0;a[i];i++){

if(a[i]=='|')

ind=i;

}

if(a[ind+1]=='i' && a[ind+2]=='d')

printf("%c%c",a[ind+1],a[ind+2]);

else

printf("%c",a[ind+1]);

}

return 0;

}

int main()

{

int n,i,j,k;

printf("\nenter the no of production : ");

scanf("%d",&n);

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

printf("\nenter the production %d : ",i+1);

scanf("%s",&s[i]);

nt[i]=s[i][0];

}

for(i=0;s[i][0];i++){

printf("\nFIRST(%c) : ",s[i][0]);

printf(check(s[i]));

}

}

Output:

