**/\* Program No.:**

**Aim: WAP to find the leftmost terminal of a given grammer consisting of**

**more than one productions.**

**\*/**

#include<stdio.h>

#include<conio.h>

#include<string.h>

char gram[10][50],first[10];

int n,l=0;

void func(int i)

{

char prod;

int t;

for(t=0;t<strlen(gram[i]);t++)

{

if(gram[i][t]=='|'||gram[i][t]=='>')

{

if(gram[i][t+1]>=97&&gram[i][t+1]<=122)

first[l++]=gram[i][t+1];

else

{

prod=gram[i][t+1];

for(int u=0;u<n;u++)

if(gram[u][0]==prod&&u!=i)

func(u);

}

}

}

}

void main()

{

clrscr();

printf("\n\tEnter the no. of productions: ");

scanf("%d",&n);

printf("\n\n\tEnter the productions\n\n");

for(int t=0;t<n;t++)

{

printf("\t\tProduction %d: ",t+1);

scanf("%s",&gram[t]);

}

func(0);

first[l]='\0';

printf("\n\n\tLeftmost terminal of grammer is: %c",first[0]);

for(t=1;t<strlen(first);t++)

printf("|%c",first[t]);

getch();

}

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