First code in c

#include<stdio.h>

#include<ctype.h>

void FIRST(char[],char );

void addToResultSet(char[],char);

int numOfProductions;

char productionSet[10][10];

main()

{

int i;

char choice;

char c;

char result[20];

printf("How many number of productions ? :");

scanf(" %d",&numOfProductions);

for(i=0;i<numOfProductions;i++)

{

printf("Enter productions Number %d : ",i+1);

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

}

do

{

printf("\n Find the FIRST of :");

scanf(" %c",&c);

FIRST(result,c);

printf("\n FIRST(%c)= { ",c);

for(i=0;result[i]!='\0';i++)

printf(" %c ",result[i]);

printf("}\n");

printf("press 'y' to continue : ");

scanf(" %c",&choice);

}

while(choice=='y'||choice =='Y');

}

void FIRST(char\* Result,char c)

{

int i,j,k;

char subResult[20];

int foundEpsilon;

subResult[0]='\0';

Result[0]='\0';

if(!(isupper(c)))

{

addToResultSet(Result,c);

return ;

}

for(i=0;i<numOfProductions;i++)

{

if(productionSet[i][0]==c)

{

if(productionSet[i][2]=='$') addToResultSet(Result,'$');

else

{

j=2;

while(productionSet[i][j]!='\0')

{

foundEpsilon=0;

FIRST(subResult,productionSet[i][j]);

for(k=0;subResult[k]!='\0';k++)

addToResultSet(Result,subResult[k]);

for(k=0;subResult[k]!='\0';k++)

if(subResult[k]=='$')

{

foundEpsilon=1;

break;

}

if(!foundEpsilon)

break;

j++;

}

}

}

}

return ;

}

void addToResultSet(char Result[],char val)

{

int k;

for(k=0 ;Result[k]!='\0';k++)

if(Result[k]==val)

return;

Result[k]=val;

Result[k+1]='\0';

}

Output:

