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#include<stdio.h>
#include<string.h>
#include<ctype.h>
int n,m=0,p,i=0,j=0;
char a[10][10],f[10];
void follow(char c);
void first(char c);
int main()
{
    int i,choice;
    char c,ch;
    printf("Enter the no.of productions:");
    scanf("%d",&n);
    printf("Enter the productions(epsilon=@):\n");
    for(i=0;i<n;i++)
        scanf("%s%c",a[i],&ch);
    do
    {
        m=0;
        printf("Enter the element whose FOLLOW is to be found:");
        scanf("%c",&c);
        follow(c);
        printf("FOLLOW(%c) = { ",c);
        for(i=0;i<m;i++)
            printf("%c ",f[i]);
        printf(" }\n");
        printf("Do you want to continue(0/1)?");
        scanf("%d%c",&choice,&ch);
    }

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while(choice==1);
}
void follow(char c)
{
    if(a[0][0]==c)f[m++]='$';
    for(i=0;i<n;i++)
    {
        for(j=2;j<strlen(a[i]);j++)
        {
            if(a[i][j]==c)
            {
                if(a[i][j+1]!='\0')first(a[i][j+1]);

                if(a[i][j+1]!='\0'&&c!=a[i][0])
                    follow(a[i][0]);
            }
        }
    }
}
void first(char c)
{
    int k;
    if(!(isupper(c)))
        f[m++] = c;
    for(k=0;k<n;k++)
    {
        if(a[k][0]==c)
        {
            if(a[k][2]=='@')

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follow(a[i][0]);

else if(islower(a[k][2]))

    f[m++]=a[k][2];

else

    first(a[k][2]);

}

}

}

```

