/\* CLR \*/

#include<stdio.h>

#include<string.h>

int i,j,z;

void printtable();

main()

{

char b[5]={'a','d','$','s','c'};

printf("\n------------------clr----------------------\n");

printf("\nthe given grammer\n");

printf("\nS->CC\nC->aC\nC->d\n");

printf("\n the parsing table of the grammer\n");

for(z=0;z<5;z++)

{

printf("\t%c",b[z]);

}

printtable();

}

void printtable()

{

for(i=0;i<=9;i++)

{

printf("\n---------------------------------------------------\n");

printf("%d",i);

for(j=0;j<=4;j++)

{

if(t[i][j]==-5)

printf("\t");

else if(t[i][j]>=1&&t[i][j]<10)

printf("\t%d",t[i][j]);

else if(t[i][j]==99)

printf("\taccepted\t");

//else if(t[i][j]%2==0)

else if(t[i][j]%2==0)

printf("\tr%d",t[i][j]/10);

else if(t[i][j]%2==1)

{

printf("\ts%d",t[i][j]/10);

continue;

}

/\*else

printf("\t"); \*/

}

}

}

Input / Output:

$ gcc clr.c

$ ./a.out

------------------clr----------------------

the given grammer

S->CC

C->aC

C->d

the parsing table of the grammer

a d $ s c

---------------------------------------------------

0 s3 s4 1 2

---------------------------------------------------

1 accepted

---------------------------------------------------

2 s6 s7 5

---------------------------------------------------

3 s3 s4 8

---------------------------------------------------

4 r3 r3

---------------------------------------------------

5 s6 r1

---------------------------------------------------

6 9

---------------------------------------------------

7 r2 s7 r3

---------------------------------------------------

8 r2

---------------------------------------------------

9 r2

$