13. back end of the compiler

```c
#include<stdio.h>
#include<stdio.h>
//#include<conio.h>
#include<string.h>
int main()
{
 char icode[10][30],str[20],opr[10];
int i=0;
//clrscr();
printf("\n Enter the set of intermediate code (terminated by exit):\n");
do
{
 scanf("%s",icode[i]);
} while(strcmp(icode[i++],"exit")!=0);
printf("\n target code generation");
printf("\n*********************");
i=0;
do
{
 strcpy(str,icode[i]);
 switch(str[3])
 {
 case '+':
 strcpy(opr,"ADD");
 break;
 case '-':
 strcpy(opr,"SUB");
 break;
 case '*':
```

```
strcpy(opr,"MUL");

break;

case '/':

strcpy(opr,"DIV");

break;

}

printf("\n\tMov %c,R%d",str[2],i);


printf("\n\t%s%c,R%d",opr,str[4],i);

printf("\n\tMov R%d,%c",i,str[0]);

}while(strcmp(icode[++i],"exit")!=0);

//getch();

}
```

Output: