

Experiment - 4 WAP to find identifier in C

Name: Shaikh Shadab

Rollno : 17DCO74

Class : TE.CO

Batch : B3

#Source code

```
#include <stdio.h> // used for various printing function
#include <stdlib.h> // For exit() function
#include <string.h> // used for string operations
int main()
{
    char c[1000];           //creating a buffer to keep content of file
    FILE *fptr;             //creating a file pointer
    int i,j;                //it will act as a pointer location to access char array element
    char z;                 //will be used to determine space in between
    if ((fptr = fopen("Program.c", "r")) == NULL) //opening the file in read mode
    {
        printf("Error! opening file");
        // Program exits if file pointer returns NULL.
        exit(1);
    }
    fscanf(fptr,"%[^\r]", c); // reads text until carriage return and stores to the buffer
    fclose(fptr);           // closing the file
    printf("Identifier found from file");
    //function for int
    for(i=0;i<strlen(c);i++){
        if(c[i]=='i'&&c[i+1]=='n'&&c[i+2]=='t'){ //if int keyword found
            z=c[i+3]; //z will be next location element in character
            j=i+3;    //j will have the number of that location
            if(z==' '){
                j++; //if z is a space incrementing by 1
            }
        }
        //defining rules as per c standard for an identifier
        if(c[j]!='0'&&c[j]!='1'&&c[j]!='2'&&c[j]!='3'&&c[j]!='4'&&c[j]!='5'&&c[j]!='6'&&c[j]!='7'&&c[j]!='8'&&c[j]!='9'&&c[j]!='('&&c[j]!=')'&&c[j]!='*'&&c[j]!='@'&&c[j]!='#'&&c[j]!='$'&&c[j]!='%'&&c[j]!='^'&&c[j]!='&'&&c[j]!=','&&c[j]!='.'&&c[j]!='`'&&c[j]!='~'&&c[j]!='!'&&c[j]!='?'&&c[j]!='/'&&c[j]!='-'&&c[j]!='+'&&c[j]!='_'){
            //defining rules so that no keyword is interpreted as identifier
            if((c[j]=='a'&&c[j+1]=='u'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))||
            (c[j]=='m'&&c[j+1]=='a'&&c[j+2]=='i'&&c[j+3]=='n'&&c[j+4]==';')||
            (c[j]=='b'&&c[j+1]=='r'&&c[j+2]=='e'&&c[j+3]=='a'&&c[j+4]=='k'&&(c[j+5]==';'||
            c[j+5]=='('))||
            (c[j]=='c'&&c[j+1]=='a'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))||
            (c[j]=='c'&&c[j+1]=='h'&&c[j+2]=='a'&&c[j+3]=='r'&&(c[j+4]==';'||c[j+4]=='('))||
```

(c[j]==c'&&c[j+1]==o'&&c[j+2]==n'&&c[j+3]==t'&&c[j+4]==i'&&c[j+5]==n'&&c[j+6]==u'&&c[j+7]==e'&&(c[j+8]==';'||c[j+8]=='))||
(c[j]==d'&&c[j+1]==o'&&(c[j+2]==';'||c[j+2]=='))||
(c[j]==d'&&c[j+1]==e'&&c[j+2]==f'&&c[j+3]==a'&&c[j+4]==u'&&c[j+5]==l'&&c[j+6]==t'&&(c[j+7]==';'||c[j+7]=='))||
(c[j]==c'&&c[j+1]==o'&&c[j+2]==n'&&c[j+3]==s'&&c[j+4]==t'&&(c[j+5]==';'||c[j+5]=='))||
(c[j]==d'&&c[j+1]==o'&&c[j+2]==u'&&c[j+3]==b'&&c[j+4]==l'&&c[j+5]==e'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==e'&&c[j+1]==l'&&c[j+2]==s'&&c[j+3]==e'&&(c[j+4]==';'||c[j+4]=='))||
(c[j]==e'&&c[j+1]==n'&&c[j+2]==u'&&c[j+3]==m'&&(c[j+4]==';'||c[j+4]=='))||
(c[j]==e'&&c[j+1]==x'&&c[j+2]==t'&&c[j+3]==e'&&c[j+4]==r'&&c[j+5]==n'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==f'&&c[j+1]==o'&&c[j+2]==r'&&(c[j+3]==';'||c[j+3]=='))||
(c[j]==i'&&c[j+1]==f'&&(c[j+2]==';'||c[j+2]=='))||
(c[j]==g'&&c[j+1]==o'&&c[j+2]==t'&&c[j+3]==o'&&(c[j+4]==';'||c[j+4]=='))||(c[j]==f'&&c[j+1]==l'&&c[j+2]==o'&&c[j+3]==a'&&c[j+4]==t'&&(c[j+5]==';'||c[j+5]=='))||
(c[j]==i'&&c[j+1]==n'&&c[j+2]==t'&&(c[j+3]==';'||c[j+3]=='))||
(c[j]==l'&&c[j+1]==o'&&c[j+2]==n'&&c[j+3]==g'&&(c[j+4]==';'||c[j+4]=='))||
(c[j]==r'&&c[j+1]==e'&&c[j+2]==g'&&c[j+3]==i'&&c[j+4]==s'&&c[j+5]==t'&&c[j+6]==e'&&c[j+7]==r'&&(c[j+8]==';'||c[j+8]=='))||
(c[j]==r'&&c[j+1]==e'&&c[j+2]==t'&&c[j+3]==u'&&c[j+4]==r'&&c[j+5]==n'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==s'&&c[j+1]==i'&&c[j+2]==g'&&c[j+3]==n'&&c[j+4]==e'&&c[j+5]==d'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==s'&&c[j+1]==t'&&c[j+2]==a'&&c[j+3]==t'&&c[j+4]==i'&&c[j+5]==c'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==s'&&c[j+1]==i'&&c[j+2]==z'&&c[j+3]==e'&&c[j+4]==o'&&c[j+5]==f'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==s'&&c[j+1]==h'&&c[j+2]==o'&&c[j+3]==r'&&c[j+4]==t'&&(c[j+5]==';'||c[j+5]=='))||
(c[j]==s'&&c[j+1]==t'&&c[j+2]==r'&&c[j+3]==u'&&c[j+4]==c'&&c[j+5]==t'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==s'&&c[j+1]==w'&&c[j+2]==i'&&c[j+3]==t'&&c[j+4]==c'&&c[j+5]==h'&&(c[j+6]==';'||c[j+6]=='))||
(c[j]==t'&&c[j+1]==y'&&c[j+2]==p'&&c[j+3]==e'&&c[j+4]==d'&&c[j+5]==e'&&c[j+6]==f'&&(c[j+7]==';'||c[j+7]=='))||
(c[j]==u'&&c[j+1]==n'&&c[j+2]==i'&&c[j+3]==o'&&c[j+4]==n'&&(c[j+5]==';'||c[j+5]=='))||
(c[j]==v'&&c[j+1]==o'&&c[j+2]==i'&&c[j+3]==d'&&(c[j+4]==';'||c[j+4]=='))||
(c[j]==w'&&c[j+1]==h'&&c[j+2]==i'&&c[j+3]==l'&&c[j+4]==e'&&(c[j+5]==';'||c[j+5]=='))||
(c[j]==v'&&c[j+1]==o'&&c[j+2]==l'&&c[j+3]==a'&&c[j+4]==t'&&c[j+5]==i'&&c[j+6]==l'&&c[j+7]==e'&&(c[j+8]==';'||c[j+8]=='))||

```

(c[j]=='u'&& c[j+1]=='n'&& c[j+2]=='s'&& c[j+3]=='i'&& c[j+4]=='g'&& c[j+5]=='n'&
& c[j+6]=='e'&& c[j+7]=='d'&& (c[j+8]=='|' || c[j+8]=='('))
    ){
        printf(" ");
    }
    else{
        printf("\n%c",c[j]);
        //printing everything that comes after int keyword
intcheck:    if(c[j+1]!='\n'&& c[j+1]!=';'&& c[j+1]!='{'){
                                                    //until ; or {
                printf("%c",c[j+1]);
                j++;
                goto intcheck;
            }
        }
    }
}

```

//function for float

```

for(i=0;i<strlen(c);i++){
    if(c[i]=='f'&& c[i+1]=='l'&& c[i+2]=='o'&& c[i+3]=='a'&& c[i+4]=='t'){
        z=c[i+5];
        j=i+5;
        if(z==' '){
            j++;
        }
        if(c[j]!='0'&& c[j]!='1'&& c[j]!='2'&& c[j]!='3'&& c[j]!='4'&& c[j]!='5'&& c[j]!='6'&& c[
j]!='7'&& c[j]!='8'&& c[j]!='9'&& c[j]!='('&& c[j]!=')'&& c[j]!='*'&& c[j]!='@'&& c[j]!
='#'&& c[j]!='$'&& c[j]!='%'&& c[j]!='^'&& c[j]!='&'&& c[j]!=','&& c[j]!='.'&& c[j]!='`'
&& c[j]!='~'&& c[j]!='!'&& c[j]!='?'&& c[j]!='/'&& c[j]!='-'&& c[j]!='+'&& c[j]!='_'){
            if((c[j]=='a'&& c[j+1]=='u'&& c[j+2]=='t'&& c[j+3]=='o'&& (c[j+4]=='|' || c[j+4]=='('))||
(c[j]=='m'&& c[j+1]=='a'&& c[j+2]=='i'&& c[j+3]=='n'&& c[j+4]=='e'&& c[j+5]=='t'&& c[j+6]=='u'&& c[j+7]=='e'&& (c[j+8]=='|' || c[j+8]=='('))||
(c[j]=='b'&& c[j+1]=='r'&& c[j+2]=='e'&& c[j+3]=='a'&& c[j+4]=='k'&& (c[j+5]=='|' || c[
j+5]=='('))||
(c[j]=='c'&& c[j+1]=='a'&& c[j+2]=='s'&& c[j+3]=='e'&& (c[j+4]=='|' || c[j+4]=='('))||
(c[j]=='c'&& c[j+1]=='h'&& c[j+2]=='a'&& c[j+3]=='r'&& (c[j+4]=='|' || c[j+4]=='('))||
(c[j]=='c'&& c[j+1]=='o'&& c[j+2]=='n'&& c[j+3]=='t'&& c[j+4]=='i'&& c[j+5]=='n'&&
& c[j+6]=='u'&& c[j+7]=='e'&& (c[j+8]=='|' || c[j+8]=='('))||
(c[j]=='d'&& c[j+1]=='o'&& (c[j+2]=='|' || c[j+2]=='('))||
(c[j]=='d'&& c[j+1]=='e'&& c[j+2]=='f'&& c[j+3]=='a'&& c[j+4]=='u'&& c[j+5]=='l'&&
& c[j+6]=='t'&& (c[j+7]=='|' || c[j+7]=='('))||
(c[j]=='c'&& c[j+1]=='o'&& c[j+2]=='n'&& c[j+3]=='s'&& c[j+4]=='t'&& (c[j+5]=='|' || c[
j+5]=='('))||
(c[j]=='d'&& c[j+1]=='o'&& c[j+2]=='u'&& c[j+3]=='b'&& c[j+4]=='l'&& c[j+5]=='e'&&
& (c[j+6]=='|' || c[j+6]=='('))||

```

```

(c[j]=='e'&&c[j+1]=='l'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))|
(c[j]=='e'&&c[j+1]=='n'&&c[j+2]=='u'&&c[j+3]=='m'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='e'&&c[j+1]=='x'&&c[j+2]=='t'&&c[j+3]=='e'&&c[j+4]=='r'&&c[j+5]=='n'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='f'&&c[j+1]=='o'&&c[j+2]=='r'&&(c[j+3]==';'||c[j+3]=='('))||
(c[j]=='i'&&c[j+1]=='f'&&(c[j+2]==';'||c[j+2]=='('))||
(c[j]=='g'&&c[j+1]=='o'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='f'&&c[j+1]=='l'&&c[j+2]=='o'&&c[j+3]=='a'&&c[j+4]=='t'&&(c[j+5]==';'||c[j
+5]=='('))||
(c[j]=='i'&&c[j+1]=='n'&&c[j+2]=='t'&&(c[j+3]==';'||c[j+3]=='('))||
(c[j]=='l'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='g'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='g'&&c[j+3]=='i'&&c[j+4]=='s'&&c[j+5]=='t'&&
c[j+6]=='e'&&c[j+7]=='r'&&(c[j+8]==';'||c[j+8]=='('))||
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='t'&&c[j+3]=='u'&&c[j+4]=='r'&&c[j+5]=='n'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='g'&&c[j+3]=='n'&&c[j+4]=='e'&&c[j+5]=='d'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='a'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='c'&&
(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='z'&&c[j+3]=='e'&&c[j+4]=='o'&&c[j+5]=='f'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='h'&&c[j+2]=='o'&&c[j+3]=='r'&&c[j+4]=='t'&&(c[j+5]==';'||c[
j+5]=='('))||
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='r'&&c[j+3]=='u'&&c[j+4]=='c'&&c[j+5]=='t'&&
(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='w'&&c[j+2]=='i'&&c[j+3]=='t'&&c[j+4]=='c'&&c[j+5]=='h'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='t'&&c[j+1]=='y'&&c[j+2]=='p'&&c[j+3]=='e'&&c[j+4]=='d'&&c[j+5]=='e'&
&c[j+6]=='f'&&(c[j+7]==';'||c[j+7]=='('))||
(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='i'&&c[j+3]=='o'&&c[j+4]=='n'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='i'&&c[j+3]=='d'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='w'&&c[j+1]=='h'&&c[j+2]=='i'&&c[j+3]=='l'&&c[j+4]=='e'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='l'&&c[j+3]=='a'&&c[j+4]=='t'&&c[j+5]=='i'&&
c[j+6]=='l'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))||
(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='s'&&c[j+3]=='i'&&c[j+4]=='g'&&c[j+5]=='n'&
&c[j+6]=='e'&&c[j+7]=='d'&&(c[j+8]==';'||c[j+8]=='('))
){
    printf(" ");
}
else{
    printf("\n%c",c[j]);
floatcheck:    if(c[j+1]!='n'&&c[j+1]!=';'&&c[j+1]!=''){
                printf("%c",c[j+1]);

```

```

        j++;
        goto floatcheck;
    }
}
}

//function for double
for(i=0;i<strlen(c);i++){
if(c[i]=='d'&&c[i+1]=='o'&&c[i+2]=='u'&&c[i+3]=='b'&&c[i+4]=='l'&&c[i+5]=='e')
{
    z=c[i+6];
    j=i+6;
    if(z==' '){
        j++;
    }
if(c[j]!='0'&&c[j]!='1'&&c[j]!='2'&&c[j]!='3'&&c[j]!='4'&&c[j]!='5'&&c[j]!='6'&&c[j]!='7'&&c[j]!='8'&&c[j]!='9'&&c[j]!='('&&c[j]!=')'&&c[j]!='*'&&c[j]!='@'&&c[j]!='#'&&c[j]!='$'&&c[j]!='%'&&c[j]!='^'&&c[j]!='&'&&c[j]!=','&&c[j]!='.'&&c[j]!='~'&&c[j]!='!'&&c[j]!='?'&&c[j]!='/'&&c[j]!='-'&&c[j]!='+'&&c[j]!='_')
if((c[j]=='a'&&c[j+1]=='u'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='m'&&c[j+1]=='a'&&c[j+2]=='i'&&c[j+3]=='n'&&c[j+4]==';'))
(c[j]=='b'&&c[j+1]=='r'&&c[j+2]=='e'&&c[j+3]=='a'&&c[j+4]=='k'&&(c[j+5]==';'||c[j+5]=='('))
(c[j]=='c'&&c[j+1]=='a'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='c'&&c[j+1]=='h'&&c[j+2]=='a'&&c[j+3]=='r'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='n'&&c[j+6]=='u'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))
(c[j]=='d'&&c[j+1]=='o'&&(c[j+2]==';'||c[j+2]=='('))
(c[j]=='d'&&c[j+1]=='e'&&c[j+2]=='f'&&c[j+3]=='a'&&c[j+4]=='u'&&c[j+5]=='l'&&c[j+6]=='t'&&(c[j+7]==';'||c[j+7]=='('))
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='s'&&c[j+4]=='t'&&(c[j+5]==';'||c[j+5]=='('))
(c[j]=='d'&&c[j+1]=='o'&&c[j+2]=='u'&&c[j+3]=='b'&&c[j+4]=='l'&&c[j+5]=='e'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='e'&&c[j+1]=='l'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='e'&&c[j+1]=='n'&&c[j+2]=='u'&&c[j+3]=='m'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='e'&&c[j+1]=='x'&&c[j+2]=='t'&&c[j+3]=='e'&&c[j+4]=='r'&&c[j+5]=='n'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='f'&&c[j+1]=='o'&&c[j+2]=='r'&&(c[j+3]==';'||c[j+3]=='('))
(c[j]=='i'&&c[j+1]=='f'&&(c[j+2]==';'||c[j+2]=='('))
(c[j]=='g'&&c[j+1]=='o'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='f'&&c[j+1]=='l'&&c[j+2]=='o'&&c[j+3]=='a'&&c[j+4]=='t'&&(c[j+5]==';'||c[j+5]=='('))
+5]=='('))

```

```

(c[j]== 'i' && c[j+1]== 'n' && c[j+2]== 't' && (c[j+3]== ';' || c[j+3]== '(')) ||
(c[j]== 'l' && c[j+1]== 'o' && c[j+2]== 'n' && c[j+3]== 'g' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'r' && c[j+1]== 'e' && c[j+2]== 'g' && c[j+3]== 'i' && c[j+4]== 's' && c[j+5]== 't' &&
c[j+6]== 'e' && c[j+7]== 'r' && (c[j+8]== ';' || c[j+8]== '(')) ||
(c[j]== 'r' && c[j+1]== 'e' && c[j+2]== 't' && c[j+3]== 'u' && c[j+4]== 'r' && c[j+5]== 'n' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'i' && c[j+2]== 'g' && c[j+3]== 'n' && c[j+4]== 'e' && c[j+5]== 'd' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 't' && c[j+2]== 'a' && c[j+3]== 't' && c[j+4]== 'i' && c[j+5]== 'c' &&
(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'i' && c[j+2]== 'z' && c[j+3]== 'e' && c[j+4]== 'o' && c[j+5]== 'f' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'h' && c[j+2]== 'o' && c[j+3]== 'r' && c[j+4]== 't' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 's' && c[j+1]== 't' && c[j+2]== 'r' && c[j+3]== 'u' && c[j+4]== 'c' && c[j+5]== 't' &&
(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'w' && c[j+2]== 'i' && c[j+3]== 't' && c[j+4]== 'c' && c[j+5]== 'h' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 't' && c[j+1]== 'y' && c[j+2]== 'p' && c[j+3]== 'e' && c[j+4]== 'd' && c[j+5]== 'e' &&
&c[j+6]== 'f' && (c[j+7]== ';' || c[j+7]== '(')) ||
(c[j]== 'u' && c[j+1]== 'n' && c[j+2]== 'i' && c[j+3]== 'o' && c[j+4]== 'n' && (c[j+5]== ';' || c
[j+5]== '(')) ||
(c[j]== 'v' && c[j+1]== 'o' && c[j+2]== 'i' && c[j+3]== 'd' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'w' && c[j+1]== 'h' && c[j+2]== 'i' && c[j+3]== 'l' && c[j+4]== 'e' && (c[j+5]== ';' || c
[j+5]== '(')) ||
(c[j]== 'v' && c[j+1]== 'o' && c[j+2]== 'l' && c[j+3]== 'a' && c[j+4]== 't' && c[j+5]== 'i' &&
c[j+6]== 'l' && c[j+7]== 'e' && (c[j+8]== ';' || c[j+8]== '(')) ||
(c[j]== 'u' && c[j+1]== 'n' && c[j+2]== 's' && c[j+3]== 'i' && c[j+4]== 'g' && c[j+5]== 'n' &&
&c[j+6]== 'e' && c[j+7]== 'd' && (c[j+8]== ';' || c[j+8]== '('))
){
    printf(" ");
}
else{
    printf("\n%c",c[j]);
doublecheck:
    if(c[j+1]!='n' && c[j+1]!=';' && c[j+1]!=''){
        printf("%c",c[j+1]);
        j++;
        goto doublecheck;
    }
}
}
}
}

//function for char

```

```

for(i=0;i<strlen(c);i++){
    if(c[i]=='c'&&c[i+1]=='h'&&c[i+2]=='a'&&c[i+3]=='r'){
        z=c[i+4];
        j=i+4;
        if(z==' '){
            j++;
        }
    }
    if(c[j]!='0'&&c[j]!='1'&&c[j]!='2'&&c[j]!='3'&&c[j]!='4'&&c[j]!='5'&&c[j]!='6'&&c[j]!='7'&&c[j]!='8'&&c[j]!='9'&&c[j]!='('&&c[j]!='&'&&c[j]!='*'&&c[j]!='@'&&c[j]!='#'&&c[j]!='$'&&c[j]!='%'&&c[j]!='^'&&c[j]!='&'&&c[j]!=','&&c[j]!='.'&&c[j]!='~'&&c[j]!='!'&&c[j]!='?'&&c[j]!='/'&&c[j]!='-'&&c[j]!='+'&&c[j]!='_')
    if((c[j]=='a'&&c[j+1]=='u'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('
(c[j]=='m'&&c[j+1]=='a'&&c[j+2]=='i'&&c[j+3]=='n'&&c[j+4]=='e');))
(c[j]=='b'&&c[j+1]=='r'&&c[j+2]=='e'&&c[j+3]=='a'&&c[j+4]=='k'&&(c[j+5]==';'||c[j+5]=='('))
(c[j]=='c'&&c[j+1]=='a'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='c'&&c[j+1]=='h'&&c[j+2]=='a'&&c[j+3]=='r'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='n'&&c[j+6]=='u'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))
(c[j]=='d'&&c[j+1]=='o'&&(c[j+2]==';'||c[j+2]=='('))
(c[j]=='d'&&c[j+1]=='e'&&c[j+2]=='f'&&c[j+3]=='a'&&c[j+4]=='u'&&c[j+5]=='l'&&c[j+6]=='t'&&(c[j+7]==';'||c[j+7]=='('))
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='s'&&c[j+4]=='t'&&(c[j+5]==';'||c[j+5]=='('))
(c[j]=='d'&&c[j+1]=='o'&&c[j+2]=='u'&&c[j+3]=='b'&&c[j+4]=='l'&&c[j+5]=='e'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='e'&&c[j+1]=='l'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='e'&&c[j+1]=='n'&&c[j+2]=='u'&&c[j+3]=='m'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='e'&&c[j+1]=='x'&&c[j+2]=='t'&&c[j+3]=='e'&&c[j+4]=='r'&&c[j+5]=='n'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='f'&&c[j+1]=='o'&&c[j+2]=='r'&&(c[j+3]==';'||c[j+3]=='('))
(c[j]=='i'&&c[j+1]=='f'&&(c[j+2]==';'||c[j+2]=='('))
(c[j]=='g'&&c[j+1]=='o'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='f'&&c[j+1]=='l'&&c[j+2]=='o'&&c[j+3]=='a'&&c[j+4]=='t'&&(c[j+5]==';'||c[j+5]=='('))
(c[j]=='i'&&c[j+1]=='n'&&c[j+2]=='t'&&(c[j+3]==';'||c[j+3]=='('))
(c[j]=='l'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='g'&&(c[j+4]==';'||c[j+4]=='('))
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='g'&&c[j+3]=='i'&&c[j+4]=='s'&&c[j+5]=='t'&&c[j+6]=='e'&&c[j+7]=='r'&&(c[j+8]==';'||c[j+8]=='('))
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='t'&&c[j+3]=='u'&&c[j+4]=='r'&&c[j+5]=='n'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='g'&&c[j+3]=='n'&&c[j+4]=='e'&&c[j+5]=='d'&&(c[j+6]==';'||c[j+6]=='('))
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='a'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='c'&&(c[j+6]==';'||c[j+6]=='('))

```

```

(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='z'&&c[j+3]=='e'&&c[j+4]=='o'&&c[j+5]=='f'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='h'&&c[j+2]=='o'&&c[j+3]=='r'&&c[j+4]=='t'&&(c[j+5]==';'||c[
j+5]=='('))||
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='r'&&c[j+3]=='u'&&c[j+4]=='c'&&c[j+5]=='t'&&
(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='w'&&c[j+2]=='i'&&c[j+3]=='t'&&c[j+4]=='c'&&c[j+5]=='h'&
&(c[j+6]==';'||c[j+6]=='('))||
(c[j]=='t'&&c[j+1]=='y'&&c[j+2]=='p'&&c[j+3]=='e'&&c[j+4]=='d'&&c[j+5]=='e'&
&c[j+6]=='f'&&(c[j+7]==';'||c[j+7]=='('))||
(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='i'&&c[j+3]=='o'&&c[j+4]=='n'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='i'&&c[j+3]=='d'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='w'&&c[j+1]=='h'&&c[j+2]=='i'&&c[j+3]=='l'&&c[j+4]=='e'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='l'&&c[j+3]=='a'&&c[j+4]=='t'&&c[j+5]=='i'&&
c[j+6]=='l'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))||
(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='s'&&c[j+3]=='i'&&c[j+4]=='g'&&c[j+5]=='n'&
&c[j+6]=='e'&&c[j+7]=='d'&&(c[j+8]==';'||c[j+8]=='('))
){
    printf(" ");
}
else{
    printf("\n%c",c[j]);
charcheck:    if(c[j+1]!='n'&&c[j+1]!=';'&&c[j+1]!=''){
                printf("%c",c[j+1]);
                j++;
                goto charcheck;
            }
        }
    }
}

//function for structure
for(i=0;i<strlen(c);i++){

if(c[i]=='s'&&c[i+1]=='t'&&c[i+2]=='r'&&c[i+3]=='u'&&c[i+4]=='c'&&c[i+5]=='t'){
    z=c[i+6];
    j=i+6;
    if(z==' '){
        j++;
    }
if(c[j]!='0'&&c[j]!='1'&&c[j]!='2'&&c[j]!='3'&&c[j]!='4'&&c[j]!='5'&&c[j]!='6'&&c
[j]!='7'&&c[j]!='8'&&c[j]!='9'&&c[j]!='('&&c[j]!='&'&&c[j]!='*'&&c[j]!='@'&&c[j]!
='#'&&c[j]!='$'&&c[j]!='%'&&c[j]!='^'&&c[j]!='&'&&c[j]!='',

```



```
&&c[j]!='.&&c[j]!='&&c[j]!='~&&c[j]!='!&&c[j]!='?&&c[j]!='/'&&c[j]!='-
'&&c[j]!='+'&&c[j]!='_'){
if((c[j]=='a'&&c[j+1]=='u'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='b'&&c[j+1]=='r'&&c[j+2]=='e'&&c[j+3]=='a'&&c[j+4]=='k'&&(c[j+5]=='|c
[j+5]=='('))||
(c[j]=='m'&&c[j+1]=='a'&&c[j+2]=='i'&&c[j+3]=='n'&&c[j+4]=='|c[j+4]=='('))||
(c[j]=='c'&&c[j+1]=='a'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='c'&&c[j+1]=='h'&&c[j+2]=='a'&&c[j+3]=='r'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='n'&
&c[j+6]=='u'&&c[j+7]=='e'&&(c[j+8]=='|c[j+8]=='('))||
(c[j]=='d'&&c[j+1]=='o'&&(c[j+2]=='|c[j+2]=='('))||
(c[j]=='d'&&c[j+1]=='e'&&c[j+2]=='f'&&c[j+3]=='a'&&c[j+4]=='u'&&c[j+5]=='l'&
&c[j+6]=='t'&&(c[j+7]=='|c[j+7]=='('))||
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='s'&&c[j+4]=='t'&&(c[j+5]=='|c[
j+5]=='('))||
(c[j]=='d'&&c[j+1]=='o'&&c[j+2]=='u'&&c[j+3]=='b'&&c[j+4]=='l'&&c[j+5]=='e'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='e'&&c[j+1]=='l'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='e'&&c[j+1]=='n'&&c[j+2]=='u'&&c[j+3]=='m'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='e'&&c[j+1]=='x'&&c[j+2]=='t'&&c[j+3]=='e'&&c[j+4]=='r'&&c[j+5]=='n'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='f'&&c[j+1]=='o'&&c[j+2]=='r'&&(c[j+3]=='|c[j+3]=='('))||
(c[j]=='i'&&c[j+1]=='f'&&(c[j+2]=='|c[j+2]=='('))||
(c[j]=='g'&&c[j+1]=='o'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='f'&&c[j+1]=='l'&&c[j+2]=='o'&&c[j+3]=='a'&&c[j+4]=='t'&&(c[j+5]=='|c[j
+5]=='('))||
(c[j]=='i'&&c[j+1]=='n'&&c[j+2]=='t'&&(c[j+3]=='|c[j+3]=='('))||
(c[j]=='l'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='g'&&(c[j+4]=='|c[j+4]=='('))||
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='g'&&c[j+3]=='i'&&c[j+4]=='s'&&c[j+5]=='t'&&
&c[j+6]=='e'&&c[j+7]=='r'&&(c[j+8]=='|c[j+8]=='('))||
(c[j]=='r'&&c[j+1]=='e'&&c[j+2]=='t'&&c[j+3]=='u'&&c[j+4]=='r'&&c[j+5]=='n'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='g'&&c[j+3]=='n'&&c[j+4]=='e'&&c[j+5]=='d'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='a'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='c'&&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='i'&&c[j+2]=='z'&&c[j+3]=='e'&&c[j+4]=='o'&&c[j+5]=='f'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='h'&&c[j+2]=='o'&&c[j+3]=='r'&&c[j+4]=='t'&&(c[j+5]=='|c[
j+5]=='('))||
(c[j]=='s'&&c[j+1]=='t'&&c[j+2]=='r'&&c[j+3]=='u'&&c[j+4]=='c'&&c[j+5]=='t'&&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='s'&&c[j+1]=='w'&&c[j+2]=='i'&&c[j+3]=='t'&&c[j+4]=='c'&&c[j+5]=='h'&
&(c[j+6]=='|c[j+6]=='('))||
(c[j]=='t'&&c[j+1]=='y'&&c[j+2]=='p'&&c[j+3]=='e'&&c[j+4]=='d'&&c[j+5]=='e'&
&(c[j+6]=='f'&&(c[j+7]=='|c[j+7]=='('))||
```

```

(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='i'&&c[j+3]=='o'&&c[j+4]=='n'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='i'&&c[j+3]=='d'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='w'&&c[j+1]=='h'&&c[j+2]=='i'&&c[j+3]=='l'&&c[j+4]=='e'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='v'&&c[j+1]=='o'&&c[j+2]=='l'&&c[j+3]=='a'&&c[j+4]=='t'&&c[j+5]=='i'&&
c[j+6]=='l'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))||
(c[j]=='u'&&c[j+1]=='n'&&c[j+2]=='s'&&c[j+3]=='i'&&c[j+4]=='g'&&c[j+5]=='n'&
&c[j+6]=='e'&&c[j+7]=='d'&&(c[j+8]==';'||c[j+8]=='('))
){
    printf(" ");
}
else{
    printf("\n%c",c[j]);
structcheck:
    if(c[j+1]!='n'&&c[j+1]!=';'&&c[j+1]!=''){
        printf("%c",c[j+1]);
        j++;
        goto structcheck;
    }
}
}
}

//function for void
for(i=0;i<strlen(c);i++){
    if(c[i]=='v'&&c[i+1]=='o'&&c[i+2]=='i'&&c[i+3]=='d'){
        z=c[i+4];
        j=i+4;
        if(z==' '){
            j++;
        }
    if(c[j]!='0'&&c[j]!='1'&&c[j]!='2'&&c[j]!='3'&&c[j]!='4'&&c[j]!='5'&&c[j]!='6'&&c
[j]!='7'&&c[j]!='8'&&c[j]!='9'&&c[j]!='('&&c[j]!=')'&&c[j]!='*'&&c[j]!='@'&&c[j]!
='#'&&c[j]!='$'&&c[j]!='%'&&c[j]!='^'&&c[j]!='&'&&c[j]!=','&&c[j]!='.'&&c[j]!=''
&&c[j]!='~'&&c[j]!='!'&&c[j]!='?'&&c[j]!='/'&&c[j]!='-'&&c[j]!='+'&&c[j]!='_')
    if((c[j]=='a'&&c[j+1]=='u'&&c[j+2]=='t'&&c[j+3]=='o'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='b'&&c[j+1]=='r'&&c[j+2]=='e'&&c[j+3]=='a'&&c[j+4]=='k'&&(c[j+5]==';'||c
[j+5]=='('))||
(c[j]=='m'&&c[j+1]=='a'&&c[j+2]=='i'&&c[j+3]=='n'&&c[j+4]==';'))||
(c[j]=='c'&&c[j+1]=='a'&&c[j+2]=='s'&&c[j+3]=='e'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='c'&&c[j+1]=='h'&&c[j+2]=='a'&&c[j+3]=='r'&&(c[j+4]==';'||c[j+4]=='('))||
(c[j]=='c'&&c[j+1]=='o'&&c[j+2]=='n'&&c[j+3]=='t'&&c[j+4]=='i'&&c[j+5]=='n'&
&c[j+6]=='u'&&c[j+7]=='e'&&(c[j+8]==';'||c[j+8]=='('))||
(c[j]=='d'&&c[j+1]=='o'&&(c[j+2]==';'||c[j+2]=='('))||

```

```

(c[j]== 'd' && c[j+1]== 'e' && c[j+2]== 'f' && c[j+3]== 'a' && c[j+4]== 'u' && c[j+5]== 'l' &&
&c[j+6]== 't' && (c[j+7]== ';' || c[j+7]== '(')) ||
(c[j]== 'c' && c[j+1]== 'o' && c[j+2]== 'n' && c[j+3]== 's' && c[j+4]== 't' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 'd' && c[j+1]== 'o' && c[j+2]== 'u' && c[j+3]== 'b' && c[j+4]== 'l' && c[j+5]== 'e' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 'e' && c[j+1]== 'l' && c[j+2]== 's' && c[j+3]== 'e' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'e' && c[j+1]== 'n' && c[j+2]== 'u' && c[j+3]== 'm' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'e' && c[j+1]== 'x' && c[j+2]== 't' && c[j+3]== 'e' && c[j+4]== 'r' && c[j+5]== 'n' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 'f' && c[j+1]== 'o' && c[j+2]== 'r' && (c[j+3]== ';' || c[j+3]== '(')) ||
(c[j]== 'i' && c[j+1]== 'f' && (c[j+2]== ';' || c[j+2]== '(')) ||
(c[j]== 'g' && c[j+1]== 'o' && c[j+2]== 't' && c[j+3]== 'o' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'f' && c[j+1]== 'l' && c[j+2]== 'o' && c[j+3]== 'a' && c[j+4]== 't' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 'i' && c[j+1]== 'n' && c[j+2]== 't' && (c[j+3]== ';' || c[j+3]== '(')) ||
(c[j]== 'l' && c[j+1]== 'o' && c[j+2]== 'n' && c[j+3]== 'g' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'r' && c[j+1]== 'e' && c[j+2]== 'g' && c[j+3]== 'i' && c[j+4]== 's' && c[j+5]== 't' &&
c[j+6]== 'e' && c[j+7]== 'r' && (c[j+8]== ';' || c[j+8]== '(')) ||
(c[j]== 'r' && c[j+1]== 'e' && c[j+2]== 't' && c[j+3]== 'u' && c[j+4]== 'r' && c[j+5]== 'n' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'i' && c[j+2]== 'g' && c[j+3]== 'n' && c[j+4]== 'e' && c[j+5]== 'd' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 't' && c[j+2]== 'a' && c[j+3]== 't' && c[j+4]== 'i' && c[j+5]== 'c' &&
(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'i' && c[j+2]== 'z' && c[j+3]== 'e' && c[j+4]== 'o' && c[j+5]== 'f' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'h' && c[j+2]== 'o' && c[j+3]== 'r' && c[j+4]== 't' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 's' && c[j+1]== 't' && c[j+2]== 'r' && c[j+3]== 'u' && c[j+4]== 'c' && c[j+5]== 't' &&
(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 's' && c[j+1]== 'w' && c[j+2]== 'i' && c[j+3]== 't' && c[j+4]== 'c' && c[j+5]== 'h' &&
&(c[j+6]== ';' || c[j+6]== '(')) ||
(c[j]== 't' && c[j+1]== 'y' && c[j+2]== 'p' && c[j+3]== 'e' && c[j+4]== 'd' && c[j+5]== 'e' &&
&c[j+6]== 'f' && (c[j+7]== ';' || c[j+7]== '(')) ||
(c[j]== 'u' && c[j+1]== 'n' && c[j+2]== 'i' && c[j+3]== 'o' && c[j+4]== 'n' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 'v' && c[j+1]== 'o' && c[j+2]== 'i' && c[j+3]== 'd' && (c[j+4]== ';' || c[j+4]== '(')) ||
(c[j]== 'w' && c[j+1]== 'h' && c[j+2]== 'i' && c[j+3]== 'l' && c[j+4]== 'e' && (c[j+5]== ';' || c[
j+5]== '(')) ||
(c[j]== 'v' && c[j+1]== 'o' && c[j+2]== 'l' && c[j+3]== 'a' && c[j+4]== 't' && c[j+5]== 'i' &&
c[j+6]== 'l' && c[j+7]== 'e' && (c[j+8]== ';' || c[j+8]== '(')) ||
(c[j]== 'u' && c[j+1]== 'n' && c[j+2]== 's' && c[j+3]== 'i' && c[j+4]== 'g' && c[j+5]== 'n' &&
&c[j+6]== 'e' && c[j+7]== 'd' && (c[j+8]== ';' || c[j+8]== '('))
){
printf(" ");

```

```

    }
    else{
        printf("\n%c",c[j]);
        voidcheck:
        if(c[j+1]!='\n'&& c[j+1]!=';'&& c[j+1]!='{'){
            printf("%c",c[j+1]);
            j++;
            goto voidcheck;
        }
    }
}

return 0;
}

```

#Content of program.c

```

#include<stdio.h>
int auto(){
    int a;
    int shadab;
    int 1;
    void _12;
    float @spcc;
    char spcc;
    int main;
}

float auto1(){
    float some;
    char 125;
}

double return(){

}

struct defines(){

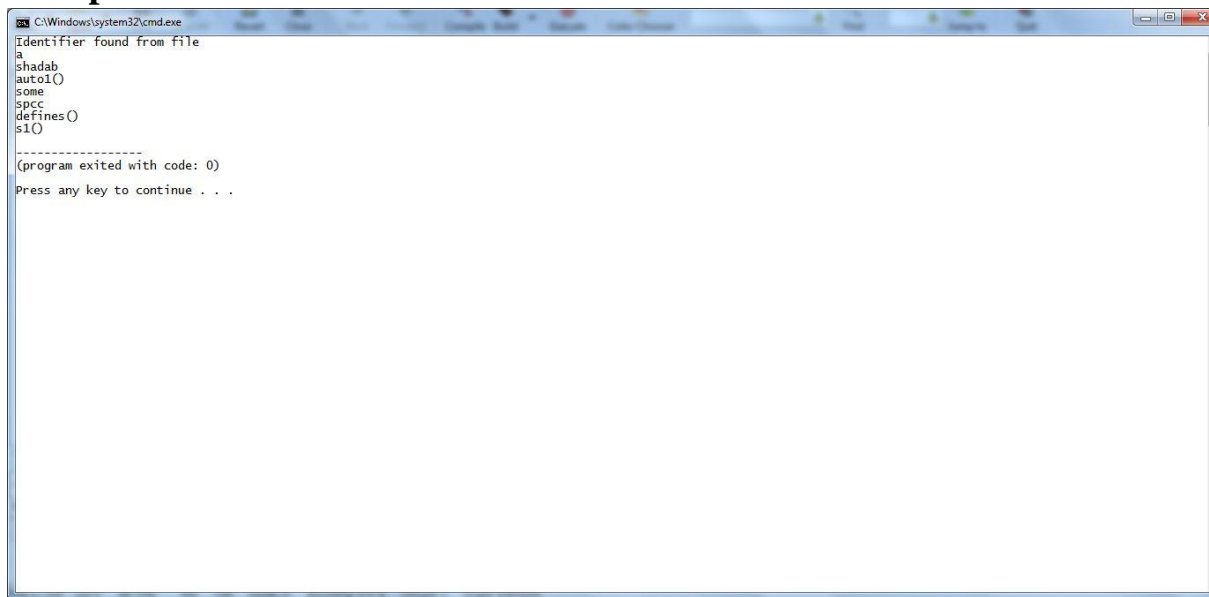
}

void s1(){

}

```

#Output



```
C:\Windows\system32\cmd.exe
Identifier found from file
a
shadab
auto1()
some
spcc
defines()
s1()

-----
(program exited with code: 0)
Press any key to continue . . .
```