

Praktikum Sistem Operasi

MODUL 10

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List.c

```
GNU nano 2.5.3 File: list.c

#include <stdio.h>
#include <dirent.h>
main(){
    struct dirent
    **namelist;int n,i;
    char pathname[100];
    getcwd(pathname);

    n=scandir(pathname, &namelist, 0, alphasort);
    if(n<0)
        printf("Error\n");
    else
        for (i=0; i<n; i++){if (namelist[i]->d_name[0] !='.')
            printf("%-20s", namelist[i]->d_name);
        }
}
```

[Read 15 lines]

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compile c gcc online

Language: C (gcc) Layout: Horizontal

```
1 #include <stdio.h>
2 #include <dirent.h>
3 main(){
4     struct dirent
5     **namelist;int n,i;
6     char pathname[100];
7     getcwd(pathname);
8
9     n=scandir(pathname, &namelist, 0, alphasort);
10    if(n<0)
11        printf("Error\n");
12    else
13        for (i=0; i<n; i++){if (namelist[i]->d_name[0] !='.')
14            printf("%-20s", namelist[i]->d_name);
15    }
```

Run it (F8) Save it Show compiler warnings [-] Compiler args Live cooperation Put on a wall F
[-] Show input ?

Compilation time: 0.13 sec, absolute running time: 0.1 sec, cpu time: 0.04 sec, memory peak: 3 Mb, absolute service time: 0.3 sec

0	123	123.txt	15
278428144	INI_FILE_BARU	KaliBot-Is.gr8	a.txt
admin_eblan0	admin_eblan1	admin_eblan10	admin_eblan100
admin_eblan101	admin_eblan102	admin_eblan103	admin_eblan104
admin_eblan105	admin_eblan106	admin_eblan107	admin_eblan108
admin_eblan109	admin_eblan11	admin_eblan110	admin_eblan111
admin_eblan112	admin_eblan113	admin_eblan114	admin_eblan115
admin_eblan116	admin_eblan117	admin_eblan118	admin_eblan119
admin_eblan12	admin_eblan120	admin_eblan121	admin_eblan122
admin_eblan123	admin_eblan124	admin_eblan125	admin_eblan126
admin_eblan127	admin_eblan128	admin_eblan129	admin_eblan13
admin_eblan130	admin_eblan131	admin_eblan132	admin_eblan133
admin_eblan134	admin_eblan135	admin_eblan136	admin_eblan137
admin_eblan138	admin_eblan139	admin_eblan14	admin_eblan140
admin_eblan141	admin_eblan142	admin_eblan143	admin_eblan144
admin_eblan145	admin_eblan146	admin_eblan147	admin_eblan148
admin_eblan149	admin_eblan15	admin_eblan150	admin_eblan151
admin_eblan152	admin_eblan153	admin_eblan154	admin_eblan155
admin_eblan156	admin_eblan157	admin_eblan158	admin_eblan159
admin_eblan16	admin_eblan160	admin_eblan161	admin_eblan162
admin_eblan163	admin_eblan164	admin_eblan165	admin_eblan166
admin_eblan167	admin_eblan168	admin_eblan169	admin_eblan17
admin_eblan170	admin_eblan171	admin_eblan172	admin_eblan173
admin_eblan174	admin_eblan175	admin_eblan176	admin_eblan177
admin_eblan178	admin_eblan179	admin_eblan18	admin_eblan180
admin_eblan181	admin_eblan182	admin_eblan183	admin_eblan184
admin_eblan185	admin_eblan186	admin_eblan187	admin_eblan188
admin_eblan189	admin_eblan19	admin_eblan190	admin_eblan191
admin_eblan192	admin_eblan193	admin_eblan194	admin_eblan195
admin_eblan196	admin_eblan197	admin_eblan198	admin_eblan199
admin_eblan2	admin_eblan20	admin_eblan200	admin_eblan21
admin_eblan22	admin_eblan23	admin_eblan24	admin_eblan25
admin_eblan26	admin_eblan27	admin_eblan28	admin_eblan29
admin_eblan3	admin_eblan30	admin_eblan31	admin_eblan32
admin_eblan33	admin_eblan34	admin_eblan35	admin_eblan36
admin_eblan37	admin_eblan38	admin_eblan39	admin_eblan4
admin_eblan40	admin_eblan41	admin_eblan42	admin_eblan43
admin_eblan44	admin_eblan45	admin_eblan46	admin_eblan47
admin_eblan48	admin_eblan49	admin_eblan5	admin_eblan50
admin_eblan51	admin_eblan52	admin_eblan53	admin_eblan54
admin_eblan55	admin_eblan56	admin_eblan57	admin_eblan58

Mygrep.c

```
GNU nano 2.5.3      File: mygrep.c

#include <stdio.h>
#include <string.h>
#include <stdlib.h>
main(int argc, char *argv[]){
    FILE *fd;
    char str[100];
    char c;
    int i, flag, j , m, k;
    char temp[30];

    if (argc !=3)
    {
        printf("Usage: gcc mygrep.c -o mygrep\n");
        printf("Usage: ./mygrep <search_text><filename>\n");
        exit(-1);
    }

    fd = fopen(argv[2],"r");
    if(fd == NULL)
```

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```
GNU nano 2.5.3      File: mygrep.c

    char str[100];
    char c;
    int i, flag, j , m, k;
    char temp[30];

    if (argc !=3)
    {
        printf("Usage: gcc mygrep.c -o mygrep\n");
        printf("Usage: ./mygrep <search_text><filename>\n");
        exit(-1);
    }

    fd = fopen(argv[2],"r");
    if(fd == NULL)
    {
        printf("%s is not exist\n",argv[2]);
    }
    while(!feof(fd))
    {
        i=0;
        while(1)
        {
            c=fgetc(fd);
            if(feof(fd))
            {
                str[i++]='\0';break;
            }
            if(c == '\n')
            {
```

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```

GNU nano 2.5.3                                File: mygrep.c

printf("%s is not exist\n",argv[2]);
}
while(!feof(fd))
{
    i=0;
    while(1)
    {
        c=fgetc(fd);
        if(feof(fd))
        {
            str[i++]='\0';break;
        }
        if(c == '\n')
        {
            str[i++]='\0';break;
        }
        str[i++]=c;
    }

    if(strlen(str) >=strlen(argv[1]))
    for (k=0;k<=strlen(str)-strlen(argv[1]);k++)
    {
        for(m=0; m<strlen(argv[1]);m++)
            temp[m] = str[k+m];
        temp[m] = '\0';
        if (strcmp(temp,argv[1]) == 0)
        {
            printf("%s\n",str);
            break;
        }
    }
}

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^X Exit          ^R Read File     ^\ Replace       ^U Uncut Text    ^T To Spell      ^_ Go To Line

```

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compile c gcc online

Language: C (gcc) Layout: Horizontal

```

1 #include <stdio.h>
2 #include <string.h>
3 #include <stdlib.h>
4 main(int argc, char *argv[]){
5     FILE *fd;
6     char str[100];
7     char c;
8     int i, flag, j, m, k;
9     char temp[30];
10
11     if (argc !=3)
12     {
13         printf("Usage: gcc mygrep.c -o mygrep\n");
14         printf("Usage: ./mygrep <search_text><filename>\n");
15         exit(-1);
16     }
17     fd = fopen(argv[2],"r");
18     if(fd == NULL)
19     {
20         printf("%s is not exist\n",argv[2]);
21     }
22     while(!feof(fd))
23     {
24         i=0;
25         while(1)
26         {
27             c=fgetc(fd);

```

Error(s):

```

source_file.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]){
^
source_file.c: In function 'main':
source_file.c:18:17: error: subscripted value is neither array nor pointer
nor vector
    fd = fopen(argv[2],"r");
                  ^
source_file.c:21:10: warning: format '%i' expects argument of type 'int',
but argument 2 has type 'char *' [-Wformat=]
    printf("%s is not exist\n",argv[2]);
           ^
In file included from /usr/include/string.h:630:0,
from source_file.c:2:
source_file.c:46:20: warning: passing argument 1 of '_builtin_strlen'
makes pointer from integer without a cast [-Wint-conversion]
    if (strcmp(temp,argv[1]) == 0)
                   ^
source_file.c:46:20: note: expected 'const char *' but argument is of type
'int'
source_file.c:46:20: warning: passing argument 2 of '_builtin_strcmp'
makes pointer from integer without a cast [-Wint-conversion]
    if (strcmp(temp,argv[1]) == 0)
                   ^
source_file.c:46:20: note: expected 'const char *' but argument is of type
'int'
source_file.c:46:20: warning: passing argument 2 of '_builtin_strcmp'
makes pointer from integer without a cast [-Wint-conversion]
    if (strcmp(temp,argv[1]) == 0)
                   ^
source_file.c:46:20: note: expected 'const char *' but argument is of type
'int'
source_file.c:46:20: warning: passing argument 1 of '_builtin_strlen'
makes pointer from integer without a cast [-Wint-conversion]
    if (strcmp(temp,argv[1]) == 0)
                   ^
source_file.c:46:20: note: expected 'const char *' but argument is of type

```

Run it (F8)

Save it

Show compiler warnings

[+] Compiler args

Live cooperation

Put on a wall

F

[+] Show input

?

Compilation time: 0.13 sec, absolute service time: 0.21 sec

Copy.c

```
GNU nano 2.5.3      File: copy.c

#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/stat.h>
#define SIZE 1024
main (int argc, char *argv[]){
    int src , dst, nread;
    char buf[SIZE];
    if (argc != 3)
    {
        printf("Usage: gcc copy.c -o copy\n");
        printf("Usage: ./copy <filename> <newfile> \n");
        exit(-1);
    }
    if((src = open(argv[1], O_RDONLY))==-1)
    {
        perror(argv[1]);
        exit(-1);
    }
    if ((dst = creat(argv[1], 0644))== -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    while((nread = read(src,buf, SIZE)) > 0)
    {
        if (write(dst,buf, nread) == -1)
        {
            printf("can't write\n");
        }
    }
}
```

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^X Exit	^R Read File	^_ Replace	^U Uncut Text	^T To Spell	^_ Go To Line

```
GNU nano 2.5.3 File: copy.c

{
    perror(argv[1]);
    exit(-1);
}
if ((dst = creat(argv[1], 0644)) == -1)
{
    perror(argv[1]);
    exit(-1);
}
while((nread = read(src,buf, SIZE)) > 0)
{
    if (write(dst,buf, nread) == -1)
    {
        printf("can't write\n");
        exit(-1);
    }
}
close(src)
close(dst)
}
```

Linux Mint

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compile c gcc online

Language: C (gcc) Layout: Horizontal

```
8 char buf[SIZE];
9 if (argc != 3)
10 {
11     printf("Usage: gcc copy.c -o copy\n");
12     printf("Usage: ./copy <filename> <newfile> \n");
13     exit(-1);
14 }
15 if((src = open(argv[1],O_RDONLY))!=-1)
16 {
17     perror(argv[1]);
18     exit(-1);
19 }
20 if ((dst = creat(argv[1], 0644)) == -1)
21 {
22     perror(argv[1]);
23     exit(-1);
24 }
25 while((nread = read(src,buf, SIZE)) > 0)
26 {
27     if (write(dst,buf, nread) == -1)
28     {
29         printf("can't write\n");
30         exit(-1);
31     }
32 }
33 close(src)
34 close(dst)
35 }
```

Error(s):

```
source_file.c:6:11: warning: return type defaults to 'int' [-Wimplicit-int]
main (int argc, char *argv[]){
^
source_file.c: In function 'main':
source_file.c:9:11: error: expected ')' before '!' token
if (argc != 3)
^
source_file.c:25:17: warning: implicit declaration of function 'read' [-Wimplicit-function-declaration]
while((nread = read(src,buf, SIZE)) > 0)
^
source_file.c:27:7: warning: implicit declaration of function 'write' [-Wimplicit-function-declaration]
if (write(dst,buf, nread) == -1)
^
source_file.c:33:2: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
close(src)
^
source_file.c:34:2: error: expected ';' before 'close'
close(dst)
^
```

Run it (F8) Save it Show compiler warnings [+] Compiler args Live cooperation Put on a wall F ?

Compilation time: 0.13 sec, absolute service time: 0.21 sec

Del.c

```
GNU nano 2.5.3 File: del.c

#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
main (int argc, char* argv[]) {
    int fd;
    if(argc != 2)
    {
        printf("Usage: gcc del.c -o del\n");
        printf("Usage: ./del <filename> \n");
        exit(-1);
    }
    fd=open (argv[1], O_RDONLY);
    if (fd !=-1)
    {
        close(fd);
        unlink(argv[1]);
    }else
        perror(argv[1]);
}

[ Read 19 lines ]
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^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

```
compile c gcc online

Language: C (gcc) Layout: Horizontal

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <fcntl.h>
4 main (int argc, char* argv[]) {
5     int fd;
6     if(argc != 2)
7     {
8         printf("Usage: gcc del.c -o del\n");
9         printf("Usage: ./del <filename> \n");
10        exit(-1);
11    }
12    fd=open (argv[1], O_RDONLY);
13    if (fd !=-1)
14    {
15        close(fd);
16        unlink(argv[1]);
17    }else
18        perror(argv[1]);
19 }

Error(s):
source_file.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main (int argc, char* argv[]) {
^
source_file.c: In function 'main':
source_file.c:6:11: error: expected expression before '!=' token
    if(argc != 2)
        ^
source_file.c:15:3: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
    close(fd);
    ^
source_file.c:16:3: warning: implicit declaration of function 'unlink' [-Wimplicit-function-declaration]
    unlink(argv[1]);
    ^

Run it (F9) Save it Show compiler warnings [+ ] Compiler args Live cooperation Put on a wall F
[+] Show input ?

Compilation time: 0.13 sec, absolute service time: 0.21 sec
```