



what's C program?

⇒ Bunch of functions

Library

`exit()` → call system function

`_exit()`

underscore  
exit

tell linux to tell my parent who  
create me, and give my parent sign  
value

usually `_exit(0)` normal terminate

Bad `_exit(1)` something bad happen

```
pod1-Linux@pod1: ~$ cat main1.c
// basic file I/O

#include <stdio.h>
#include <stdlib.h>

int main() {
    FILE *fp, *fp1;
    int x[100], i, j;

    // open file to read
    if((fp = fopen("test.dat", "r")) == NULL) {
        fprintf(stderr, "file test.dat does not exist\n");
        exit(1);
    }

    // open file to write
    fp1 = fopen("output.dat", "w");
    if(fp == NULL) {
        fprintf(stderr, "creating write file failed\n");
        exit(1);
    }

    // read data
    i = 0;
    while(fscanf(fp, "%d", &x[i]) != EOF)
        i++;

    // write data
    for(j=0; j<i; j++)
        fprintf(fp1, "%d\n", x[j]);

    "main1.c" 36L, 551C
}
```

→ write, if file exist,  
delete the file  
and create a  
new one  
over write

Makefile

main.c ; abc.c

app.bin : main.o abc.o

it gcc -o app.bin main.o abc.o

main.o : main.c

gcc -c main.c

abc.o : abc.c

gcc -c abc.c

Make will keep track of the modify  
time stamp of file, recompile the  
changed file. <sup>only</sup>