**练习2 GDB**

1. run+arguments

2. break+the condition you expect to happen

3. use the command “next”

4. use the command “step”

5. use the command “continue”

6. use the command “print+variable”

7. use the command “display+variable”

8. use the command “info variables”

9. use the command “quit”

**练习3 调试**

#include <stdio.h>

typedef struct node {

int val;

struct node\* next;

} node;

/\* FIXME: this function is buggy. \*/

int ll\_equal(const node\* a, const node\* b) {

while (a != NULL) {

if (a->val != b->val)

return 0;

a = a->next;

b = b->next;

}

/\* lists are equal if a and b are both null \*/

return a == b;

}

int main(int argc, char\*\* argv) {

int i;

node nodes[10];

for (i=0; i<10; i++) {

nodes[i].val = 0;

nodes[i].next = NULL;

}

nodes[0].next = &nodes[1];

nodes[1].next = &nodes[2];

nodes[2].next = &nodes[3];

printf("equal test 1 result = %d\n", ll\_equal(&nodes[0], &nodes[0]));

printf("equal test 2 result = %d\n", ll\_equal(&nodes[2], &nodes[0])); /\* I exchange the position of these two parameters \*/

return 0;

}

**练习4 Make初步**

1.

因为这两个wc文件的位置不同，一个位于/usr/bin里，一个位于我自己定义的文件/mnt/shared里

2.

void wc(FILE \*ofile, FILE \*infile, char \*inname) {

// your code here:

int lines,words,characters,flag;

char ch;

lines=words=characters=flag=0;

if(ofile==NULL&&infile==NULL&&inname==NULL) return ;

while((ch=fgetc(infile)) != EOF){

if(ch=='\n')

{

if(flag!=1)

++words;

++lines;

flag=1;

}

else{

if(ch==' ')

{

if(flag!=1)

++words;

flag=1;

}

else flag=0;

}

++characters;

}

if(flag!=1) ++words;

++lines;

if(ofile!=NULL)

{fprintf(ofile,"lines:%d,words:%d,characters:%d",lines,words,characters);

fclose(ofile);

}

else

printf("lines:%d,words:%d,characters:%d",lines,words,characters);

fclose(infile);

}