# 오픈소리눅스 week12

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```
#include <stdio.h>
int main(void) {
      int a, b, tmp;
                 -
공약수를 구하기 위해 두 수를 입력하세요 \n")
      printf("초
      scanf("%d %d", &a, &b);
      if(a > b){
             tmp = a;
             a = b;
             b = tmp;
      int r;
      while(1){
             r = b % a;
             a = b;
             b = r;
             if(b == 0) break;
      printf("두 수의 최대공약수는 %d 입니다. \n", a);
```

```
hallym@X57-VM-N1-42:~/week11$ vi main.c
hallym@X57-VM-N1-42:~/week11$ ls
main.c
hallym@X57-VM-N1-42:~/week11$ gcc -o main main.c
hallym@X57-VM-N1-42:~/week11$ ls
main main.c
hallym@X57-VM-N1-42:~/week11$ ./main
최대 공약수를 구하기 위해 두 수를 입력하세요
2 3
두 수의 최대공약수는 1입니다.
hallym@X57-VM-N1-42:~/week11$
```

```
hallym@X57-VM-N1-42:~/week11$ vi main2.c
hallym@X57-VM-N1-42:~/week11$ gcc -o main2 main2.c
hallym@X57-VM-N1-42:~/week11$ ls
main main2 main2.c main.c
hallym@X57-VM-N1-42:~/week11$ ./main2
2 3 5 7 11 13 17 19 23 29 hallym@X57-VM-N1-42:~/week11$
hallym@X57-VM-N1-42:~/week11$
```

```
hallym@X57-VM-N1-42: ~/week11
#include <stdio.h>
#include "func.h"
int main(void) {
        int num;
        printf("정 수 입 력 : \n");
        scanf("%d", &num);
        printf("2의 %d승은 %d \n", num, func(num));
        return 0;
hallym@X57-VM-N1-42: ~/week11
                                         Allym@X57-VM-N1-42: ~/week11
int func(int n) {
          static int i = 1;
          if(n == 0){
                                        int func(int n);
                    return i;
          i = i * 2;
          func(n-1);
```

```
hallym@X57-VM-N1-42:~/week11$ vi func.c
hallym@X57-VM-N1-42:~/week11$ vi main3.c
hallym@X57-VM-N1-42:~/week11$ gcc -c func.c
hallym@X57-VM-N1-42:~/week11$ gcc -c main3.c
hallym@X57-VM-N1-42:~/week11$ ls
func.c func.o main2 main3 main3.o
func.h main main2.c main3.c main.c
hallym@X57-VM-N1-42:~/week11$ ./main3
정수 입력:
3
2의 3승은 8
hallym@X57-VM-N1-42:~/week11$
```

```
#include <stdio.h>
#include "myheader.h"

int main(void) {
    int arr[7];
    for(int i=0; i<7; i++) {
        printf("d = : ");
        scanf("%d", &arr[i]);
    }
    printf("\n");

    bubblesort(arr, 7);

    for(int i=0; i<7; i++) {
        printf("%d", arr[i]);
    }
}</pre>
```

```
hallym@X57-VM-N1-42: ~/week11

void bubblesort(int *arr, int len);
```

```
hallym@X57-VM-N1-42:~/week11$ vi bubble.c
hallym@X57-VM-N1-42:~/week11$ vi sortmain.c
hallym@X57-VM-N1-42:~/week11$ vi myheader.h
hallym@X57-VM-N1-42:~/week11$ ls
bubble.c func.h main main2.c main3.c main.c
                                                   sortmain.c
         func.o main2 main3
                               main3.o mvheader.h
hallym@X57-VM-N1-42:~/week11$ gcc -c sortmain.c
hallym@X57-VM-N1-42:~/week11$ gcc bubble.c
/usr/lib/gcc/x86 64-linux-gnu/7/../../x86 64-linux-gnu/Scrt1.d
nction ` start':
(.text+0x20): undefined reference to `main'
collect2: error: ld returned 1 exit status
hallym@X57-VM-N1-42:~/week11$ gcc -c bubble.c
hallym@X57-VM-N1-42:~/week11$ ls
bubble.c func.h main2 main3.c myheader.h
bubble.o func.o main2.c main3.o sortmain.c
func.c
         main
                main3
                         main.c sortmain.o
hallym@X57-VM-N1-42:~/week11$ gcc -o sortmain sortmain.o bubble.c
hallym@X57-VM-N1-42:~/week11$ ls
bubble.c func.h main2 main3.c myheader.h sortmain.o
bubble.o func.o main2.c main3.o sortmain
         main
                main3
func.c
                         main.c sortmain.c
hallym@X57-VM-N1-42:~/week11$ ./sortmain
입력: 1
입력 : 2
입력 : 3
입력 : 4
입력 : 5
입력 : 6
입력: 7
7654321hallym@X57-VM-N1-42:~/week11$
```