# Báo Cáo Hệ Điều Hành

#### Lab 2

### Hoàn thành 3/3

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Bài 1/

```
duong@ubuntu:~$ cd Desktop
duong@ubuntu:~/Desktop$ cd baitap
duong@ubuntu:~/Desktop/baitap$ cd lab2
duong@ubuntu:~/Desktop/baitap/lab2$ cd bai1
duong@ubuntu:~/Desktop/baitap/lab2/bai1$ gcc -c bai1.c -o bai1.o
duong@ubuntu:~/Desktop/baitap/lab2/bai1$ gcc -o bai1.out bai1.o
duong@ubuntu:~/Desktop/baitap/lab2/bai1$ ./bai1.out 8
tong = 36
duong@ubuntu:~/Desktop/baitap/lab2/bai1$ ./bai1.out abc
doi so khong hop le
duong@ubuntu:~/Desktop/baitap/lab2/bai1$ ./bai1.out 8 19 ab
co qua nhieu doi so
duong@ubuntu:~/Desktop/baitap/lab2/bai1$
```

# Bài2/

```
s *bai2.c ×
#include<stdio.h>
void main(int argc,char**argv){
int i,j,n=0;
int a[argc];
                         //luu cac so vao 1 mang a
for(i=1;i<argc;i++){</pre>
        if(atoi(argv[i])!=0)
                 a[n++]=atoi(argv[i]);
        else if(strcmp(argv[i],"0")==0)
                 a[n++]=atoi(argv[i]);
for(i=0;i<n-1;i++){</pre>
                                  //sort
        for(j=i+1; j<n; j++){</pre>
                 if(a[i]>a[j]){
                         int temp=a[i];
                         a[i]=a[j];
                         a[j]=temp;}
        }
for(i=0;i<n;i++)</pre>
        printf("%d ",a[i]);
        duong@ubuntu: ~/Desktop/baitap/lab2/bai2
duong@ubuntu:~/Desktop/baitap/lab2/bai2$ gcc -c bai2.c -o bai2.o
duong@ubuntu:~/Desktop/baitap/lab2/bai2$ gcc -o bai2.out bai2.o
duong@ubuntu:~/Desktop/baitap/lab2/bai2$ ./ bai2.out 8 3 1 ab -12
bash: ./: Is a directory
duong@ubuntu:~/Desktop/baitap/lab2/bai2$ ./bai2.out 8 3 1 ab -12
-12 1 3 8 duong@ubuntu:~/Desktop/baitap/lab2/bai2$
```

# Bài 3/

### Thư viện tĩnh

```
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ gcc -c add.c sub.c
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ ar cr libh.a add.o sub.o
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ gcc -c main.c
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ gcc -o main.out main.o libh.a
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 +
tong = 3
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ ./main.out 3 4 -
hieu = -1
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 *
nhap thong tin khong hop le
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 %
thong tin khong hop le
duong@ubuntu: ~/Desktop/baitap/lab2/bai3$
```

## Thư viện động

```
duong@ubuntu: ~/Desktop/baitap/lab2/bai3
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ gcc -c -fPIC add.c sub.c
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ gcc -shared -fPIC -o libd.a add.o sub.o
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ sudo cp libd.a /lib
[sudo] password for duong:
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ gcc -c main.c
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ gcc -o main.out main.o libd.a
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 +
tong = 3
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ ./main.out 3 4 -
hieu = -1
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 *
nhap thong tin khong hop le
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ ./main.out 1 2 %
thong tin khong hop le
duong@ubuntu:~/Desktop/baitap/lab2/bai3$ S
```