


Họ Và Tên: Nguyễn Tấn Thành

MSSV: 52100841

- Lab: 2.2

+ câu 1:

 main1.c - Notepad

File Edit Format View Help

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

```
#include <stdlib.h>
```

```
int main (int argc, char const *argv[])
```

```
{
```

```
    int n=atoi(argv[1]); //Tham so thu nhat la tham so minh can
```

```
    int i,c=0,s=0;
```

```
    if (n>0 && argc==2) //Neu nhieu hon 2 doi so nhap vao thi ko thoa
```

```
    {
```

```
        for (i=0; i<=n; i++)
```

```
            s=s+i;
```

```
        printf("S = %d\n",s);
```

```
    }
```

```
    else if (argc>2) //nhap nhieu hon 1 so se ko tinh duoc
```

```
    {
```


```
        printf("Co qua nhieu doi so\n");
```

```
    }
```

```
    else printf("Doi so khong phai la so nguyen duong\n");
```

```
    return 0;
```

```
}
```

 C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19042.1526]

(c) Microsoft Corporation. All rights reserved.

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c main1.c

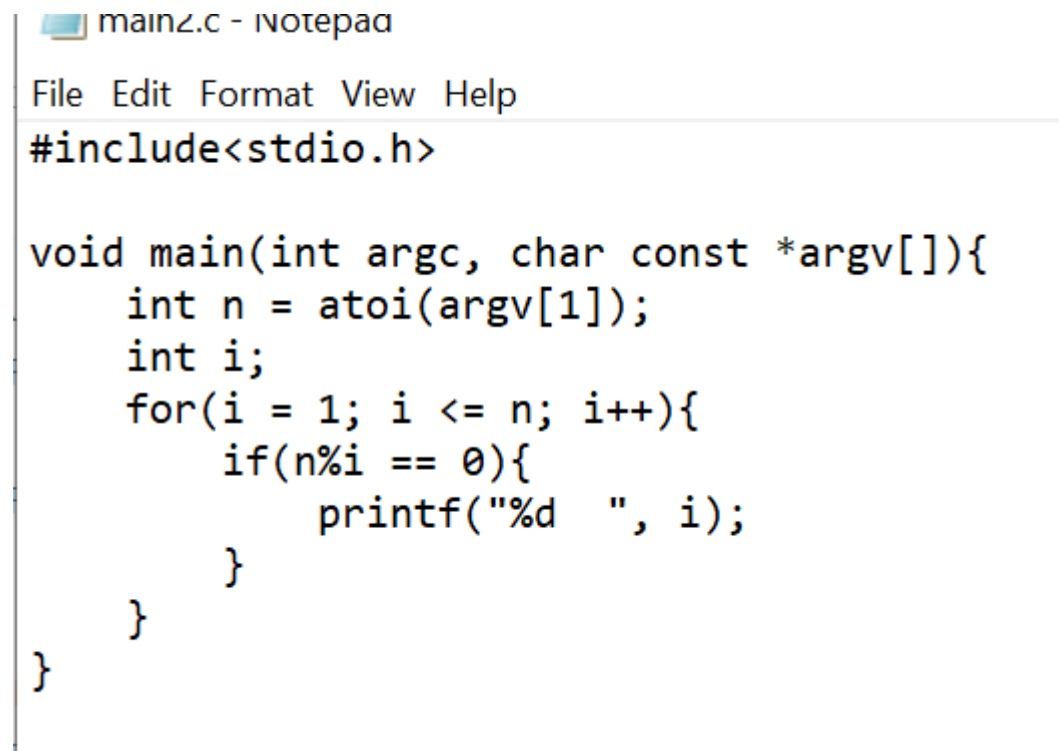
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o main1.out main1.o

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>main1.out 4

S = 10

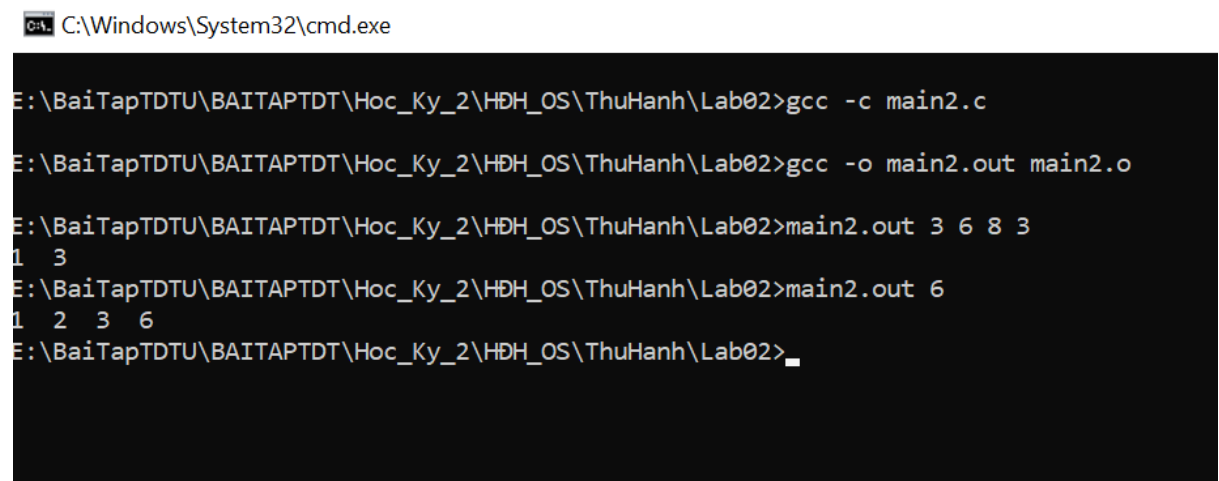
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>_

Câu 2:



```
main2.c - Notepad
File Edit Format View Help
#include<stdio.h>

void main(int argc, char const *argv[]){
    int n = atoi(argv[1]);
    int i;
    for(i = 1; i <= n; i++){
        if(n%i == 0){
            printf("%d  ", i);
        }
    }
}
```



```
C:\Windows\System32\cmd.exe
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c main2.c
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o main2.out main2.o
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>main2.out 3 6 8 3
1 3
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>main2.out 6
1 2 3 6
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>_
```

Câu 3:

File Edit Format View Help

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

```
int main (int argc, char const *argv[])
{
    int a[100];
    int i,j,k,temp;
    int n;
    //Kiem tra cac doi so nhap vao
    for (i=1; i<argc; i++)
    {
        if (argv[i]<=0 || argv[i]>0){
            if(atoi(argv[i]) == 5505116){
                continue;
            }else{
                a[i]=atoi(argv[i]);
            }
        }
    }

    //Thuat toan sap xep
    for (i=0; i<argc-1; i++)
    {
        for (j=i+1; j<argc; j++)
        {
            if (a[i]>a[j])
            {
                temp=a[i];
                a[i]=a[j];
                a[j]=temp;
            }
        }
    }
    printf("Day tang la ");
    for (i=1 ;i<argc; i++)
    {
        printf("%d\t",a[i]);
    }
    printf("\n");
    return 0;
}
```

```
C:\Windows\System32\cmd.exe

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c main3.c

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o main3.out main3.o

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>main3.out 3 1 6 3 8 9
Day tang la 3    3        6        8        9

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>
```

Lab2.3:

```
sum_n.c - Notepad
File Edit Format View Help
#include<stdio.h>

void sum_n(int n){
    int i, sum = 0;
    for(i = 0; i <= n; i++){
        sum += i;
    }
    printf("sum = %d", sum);
}
```

```
div_n.c - Notepad
File Edit Format View Help
#include<stdio.h>

void div_n(int n){
    int i;
    printf("div: ");
    for(i = 1; i <= n; i++){
        if(n%i == 0){
            printf("%d ", i);
        }
    }
}
```

```
fac_n.c - Notepad
File Edit Format View Help
#include<stdio.h>

void fac_n(int n){
    int i, sum = 1;
    for(i = 1; i <= n; i++){
        sum = sum * i;
    }
    printf("fac = %d", sum);
}
```



task3_1div.c - Notepad

File Edit Format View Help

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

void main(int argc, char *argv[]){
    int i = atoi(argv[1]);
    int k = atoi(argv[2]);
    int m = atoi(argv[3]);

    sum_n(i);
    fac_n(k);
    div_n(m);
}
```

Câu 1:

cmd: C:\Windows\System32\cmd.exe

```
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c main3.c
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o main3.out main3.o
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>main3.out 3 1 6 3 8 9
Day tang la 3 3 6 8 9 5505116
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c sum_n.c fac_n.c div_n.c
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>ar cr libstatic.h sum_n.o fac_n.o div_n.o
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>ar cr libstatic.a sum_n.o fac_n.o div_n.o
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c main.c
gcc: error: main.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c task3_1div.c
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o task3_1div.out task3_1div.o libstatic.a
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>.\task3_1div 4 6 3
'.\task3_1div' is not recognized as an internal or external command,
operable program or batch file.
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>.\task3_1div.out 3 6 8
sum = 6fac = 720div: 1 2 4 8
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>_
```

Câu 2:

C:\Windows\System32\cmd.exe

```
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c -fPIC fac_n.c
fac_n.c:1:0: warning: -fPIC ignored for target (all code is position independent)
#include<stdio.h>
^

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c -fPIC div_n.c
div_n.c:1:0: warning: -fPIC ignored for target (all code is position independent)
#include<stdio.h>
^

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -shared -fPIC -o libd.a sum_n.o fac_n.o div_n.o

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -c task3_1div.c

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>gcc -o task3_1div.out task3_1div.o libd.a

E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>.\task3_1div.out 3 2 5
sum = 6fac = 2div: 1 5
E:\BaiTapTDTU\BAITAPTDT\Hoc_Ky_2\HĐH_OS\ThuHanh\Lab02>
```