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Activities Text Editor Fri 15:33 nla204@nla204-OptiPlex-5050: ~/lab3
q5.c
#include<stdio.h>
struct info{
    int Process_ID;
    int CPU_ID;
    char State[20];
    int Parent_id;
    int Total_wait_time;
}a[10];
void main(){
    int i=0;
    for(i=0;i<10;i++){
        printf("enter Process_ID");
        scanf("%d",&a[i].Process_ID);
        printf("enter CPU_ID");
        scanf("%d",&a[i].CPU_ID);
        printf("enter State");
        gets(a[i].State);
        printf("enter Parent_id");
        scanf("%d",&a[i].Parent_id);
        printf("enter Total_wait_time");
        scanf("%d",&a[i].Total_wait_time);
    }
}
```

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File Edit View Search Terminal Help
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q5.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q5.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q5 q5.c
q5.c:13:13: error: expected identifier or '(' before ')' token
    struct info(){
    ^
q5.c:11:1: error: expected '=', ',', ';', 'asm' or '__attribute__' before 'void'
    void main(){
    ^
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q5.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q5 q5.c
q5.c: In function 'main':
q5.c:16:10: warning: format '%d' expects argument of type 'int *', but argument 2 h
as type 'int' [-Wformat=]
    scanf("%d",&a[i].Process_ID);
    ^
q5.c:18:10: warning: format '%d' expects argument of type 'int *', but argument 2 h
as type 'int' [-Wformat=]
    scanf("%d",&a[i].CPU_ID);
    ^
q5.c:20:2: warning: implicit declaration of function 'gets'; did you mean 'fgets'?
[-Wimplicit-function-declaration]
    gets(a[i].State);
    ^
q5.c:22:10: warning: format '%d' expects argument of type 'int *', but argument 2 h
as type 'int' [-Wformat=]
    scanf("%d",&a[i].Parent_id);
    ^
q5.c:24:10: warning: format '%d' expects argument of type 'int *', but argument 2 h
as type 'int' [-Wformat=]
    scanf("%d",&a[i].Total_wait_time);
    ^
/tmp/ccPjJf0L.o: In function 'main':
q5.c:(.text+0xe1): warning: the 'gets' function is dangerous and should not be used
nla204@nla204-OptiPlex-5050:~/lab3$ ./q5
enter Process_ID4
Segmentation Fault (core dumped)
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q5.c
```

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Activities Terminal Fri 15:14 nla204@nla204-OptiPlex-5050: ~/lab3
q4.c
#include<stdio.h>
typedef union complex {
    float real;
    float imag;
} complex;
complex add(complex n1, complex n2);
complex sub(complex n1, complex n2);
int main() {
    int a;
    complex n1, n2, result;
    printf("For 1st complex number\n");
    printf("Enter the real and imaginary parts: ");
    scanf("%f %f", &n1.real, &n1.imag);
    printf("\nFor 2nd complex number\n");
    printf("Enter the real and imaginary parts: ");
    scanf("%f %f", &n2.real, &n2.imag);
    printf("%s", "1 for add 2 for sub");
    scanf("%d", &a);
    if(a==1){
        result = add(n1, n2);
        printf("Sum = %.1f + %.1fi", result.real, result.imag);
    }else{
        result = sub(n1, n2);
        printf("Sub = %.1f + %.1fi", result.real, result.imag);
    }
    return 0;
}
complex add(complex n1, complex n2) {
    complex temp;
    temp.real = n1.real + n2.real;
    temp.imag = n1.imag + n2.imag;
    return (temp);
}
complex sub(complex n1, complex n2) {
    complex temp;
    temp.real = n1.real - n2.real;
```

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File Edit View Search Terminal Help
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
Enter the real1
Segmentation Fault (core dumped)
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q3 q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
For 1st complex number
Enter the real and imaginary parts: 2
2
For 2nd complex number
Enter the real and imaginary parts: 4
5
1 for add 2 for sub
4
Sub = -2.0 + -3.0inla204@nla204-OptiPlex-5050:~/lab3$ 5
5: command not found
nla204@nla204-OptiPlex-5050:~/lab3$
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
For 1st complex number
Enter the real and imaginary parts: 3
6
For 2nd complex number
Enter the real and imaginary parts: 1
7
1 for add 2 for sub2
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q4.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q4 q4.c
nla204@nla204-OptiPlex-5050:~/lab3$ ./q4
For 1st complex number
Enter the real and imaginary parts: 4
56
For 2nd complex number
Enter the real and imaginary parts: 3
76
1 for add 2 for sub1
Sum = 132.0 + 132.0inla204@nla204-OptiPlex-5050:~/lab3$ gedit q4.c
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Activities Terminal
nla204@nla204-OptiPlex-5050: ~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050: ~/lab3$ gcc -o q3 q3.c
q3.c: In function 'main':
q3.c:17:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,real);
      ^
q3.c:19:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,img);
      ^
q3.c:22:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,real );
      ^
q3.c:24:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,img );
      ^
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
enter the real1
Segmentation fault (core dumped)
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q3 q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
For 1st complex number
Enter the real and imaginary parts: 2
2
For 2nd complex number
Enter the real and imaginary parts: 4
5
1 for add 2 for sub
4
Sub = -2.0 + -3.0inla204@nla204-OptiPlex-5050:~/lab3$ 5
5: command not found
nla204@nla204-OptiPlex-5050:~/lab3$
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
For 1st complex number
Enter the real and imaginary parts: 3
6
For 2nd complex number
Enter the real and imaginary parts: 1
7
1 for add 2 for sub2
nla204@nla204-OptiPlex-5050:~/lab3$
```

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Activities Text Editor
nla204@nla204-OptiPlex-5050: ~/lab3
File Edit View Search Terminal Help
scanf("%d",a,img);
q3.c:22:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,real);
q3.c:24:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,img);
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
enter the real2
Segmentation fault (core dumped)
nla204@nla204-OptiPlex-5050:~/lab3$ 4
4: command not found
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q1.c
^M^M^M^M
nla204@nla204-OptiPlex-5050:~/lab3$ ./q1
bash: ./q1: No such file or directory
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q1 q1.c
nla204@nla204-OptiPlex-5050:~/lab3$ ./q1
910nla204@nla204-OptiPlex-5050:~/lab3$ ./q2
enter the comand#
Process completednla204@nla204-OptiPlex-5050:~/lab3$ gedit q2.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc q3.c
^C
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q3 q3.c
q3.c: In function 'main':
q3.c:17:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,real);
q3.c:19:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,img);
q3.c:22:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,real);
q3.c:24:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,img);
nla204@nla204-OptiPlex-5050:~/lab3$
```

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

struct complex
{
    int real, img;
};

void main()
{
    int a1,a2,b1,b2;
    struct complex a, b, c, d;

    int i;

    printf("%s","enter the real");
    scanf("%d",a,real);
    printf("%s","enter the img");
    scanf("%d",a,img);

    printf("%s","enter the real");
    scanf("%d",b,real);
    printf("%s","enter the real");
    scanf("%d",b,img);

    c.real=a.real+b.real;
    c.img=a.img+b.img;

    d.real=a.real-b.real;
    d.img=a.img-b.img;

    printf("%d", d.real);
}
```

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Activities Text Editor
nla204@nla204-OptiPlex-5050: ~/lab3
File Edit View Search Terminal Help
nla204@nla204-OptiPlex-5050:~$ cd lab3
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q3 q3.c
q3.c: In function 'main':
q3.c:17:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,real);
q3.c:19:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",a,img);
q3.c:22:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,real);
q3.c:24:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d",b,img);
nla204@nla204-OptiPlex-5050:~/lab3$ ./q3
enter the real2
Segmentation fault (core dumped)
nla204@nla204-OptiPlex-5050:~/lab3$ 4
4: command not found
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q3.c
nla204@nla204-OptiPlex-5050:~/lab3$ gedit q1.c
^M^M^M^M
nla204@nla204-OptiPlex-5050:~/lab3$ ./q1
bash: ./q1: No such file or directory
nla204@nla204-OptiPlex-5050:~/lab3$ gcc -o q1 q1.c
nla204@nla204-OptiPlex-5050:~/lab3$ ./q1
910nla204@nla204-OptiPlex-5050:~/lab3$ ./q2
enter the comand#
Process completednla204@nla204-OptiPlex-5050:~/lab3$ gedit q2.c
```

```
#include <stdio.h>

void main(){
    char num;
    printf("%s","enter the comand");
    num=getchar();
    switch (num) {
        case 'a':
            printf("Process in new state");
            break;
        case 'r':
            printf("Process in ready state");
            break;
        case 's':
            printf("Process in running state");
            break;
        case '/':
            printf("Process moved to waiting state");
            break;
        case 'S':
            printf("Process waiting for CPU");
            break;
        case '#':
            printf("Process completed");
            break;
    }
}
```

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