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Online C Compiler

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












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main.c

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Run
























Output

Clear

```
1 #include<stdio.h>
2 #include<unistd.h>
3 #include<sys/types.h>
4 int main()
5 {
6     pid_t p;
7     printf("before fork\n");
8     p=fork();
9     if(p==0)
10    {
11        printf("I am child having id %d\n",getpid());
12        printf("My parent's id is %d\n",getppid());
13    }
14    else{
15        printf("My child's id is %d\n",p);
16        printf("I am parent having id %d\n",getpid());
17    }
18    printf("Common\n");
19 }
```

```
/tmp/Bj9Lhhxdfa.o
before fork
My child's id is 1727
I am parent having id 1726
Common
I am child having id 1727
My parent's id is 1
Common
```

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26-09-2022

42

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Interactive C Course

main.c

Run

Output

Clear

```
1  printf("Enter the filename to open for reading \n");
2  scanf("%s",filename);
3  // Open one file for reading
4  fptr1 = fopen(filename, "r");
5  if (fptr1 == NULL){
6      printf("Cannot open file %s \n", filename);
7      exit(0);
8  }
9  printf("Enter the filename to open for writing \n");
10 scanf("%s", filename);
11 // Open another file for writing
12 fptr2 = fopen(filename, "w");
13 if (fptr2 == NULL){
14     printf("Cannot open file %s \n", filename);
15     exit(0);
16 }
17 // Read contents from file
18 c = fgetc(fptr1);
19 while (c != EOF){
20     fputc(c, fptr2);
21     c = fgetc(fptr1);
22 }
23 printf("\nContents copied to %s", filename);
24 fclose(fptr1);
25 fclose(fptr2);
26 return 0;
27 }
```

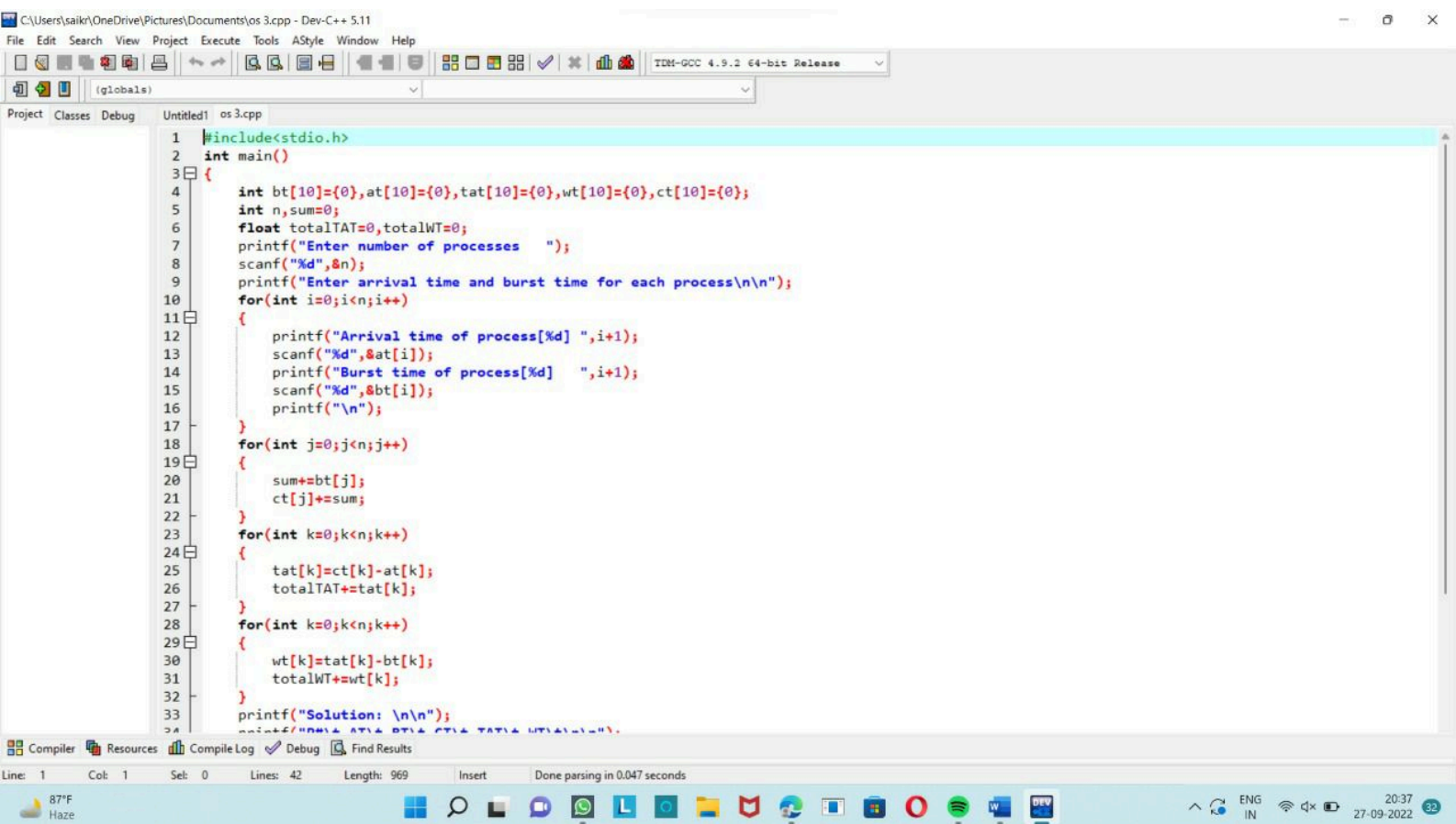
```
/tmp/LqKe0ERUVc.o
Enter the filename to open for reading
addition matrix
Cannot open file addition
```

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26-09-2022

41



C:\Users\saiakr\OneDrive\Pictures\Documents\os 3.exe

```
Arrival time of process[1] 3
Burst time of process[1] 5

Arrival time of process[2] 1
Burst time of process[2] 6

Arrival time of process[3] 2
Burst time of process[3] 3

Arrival time of process[4] 4
Burst time of process[4] 8

Solution:
```

P#	AT	BT	CT	TAT	WT
P1	3	5	5	2	-3
P2	1	6	11	10	4
P3	2	3	14	12	9
P4	4	8	22	18	10

Average Turnaround Time = 10.500000
Average WT = 5.000000

Process exited after 19.6 seconds with return value 0
Press any key to continue . . .

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C:\Users\sai\OneDrive\Pictures\Documents\os 4.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Compiler: GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug Untitled1 os 4.cpp

```
1 #include <stdio.h>
2 int main()
3 {
4     int A[100][4];
5     int i, j, n, total = 0, index, temp; float avg_wt, avg_tat;
6     printf("Enter number of process: "); scanf("%d", &n);
7     printf("Enter Burst Time:\n");
8     for (i = 0; i < n; i++) {
9         printf("P%d: ", i + 1); scanf("%d", &A[i][1]); A[i][0] = i + 1;
10    }
11    for (i = 0; i < n; i++) {
12        index = i;
13        for (j = i + 1; j < n; j++)
14            if (A[j][1] < A[index][1]) index = j;
15        temp = A[i][1]; A[i][1] = A[index][1]; A[index][1] = temp;
16        temp = A[i][0];
17        A[i][0] = A[index][0]; A[index][0] = temp;
18    }
19    A[0][2] = 0;
20    for (i = 1; i < n; i++) {
21        A[i][2] = 0;
22        for (j = 0; j < i; j++)
23            A[i][2] += A[j][1];
24        total += A[i][2];
25    }
26    avg_wt = (float)total / n; total = 0;
27    printf("P BT WT TAT\n"); for (i = 0; i < n; i++) {
28        A[i][3] = A[i][1] + A[i][2];
29        total += A[i][3];
30        printf("P%d %d %d %d\n", A[i][0], A[i][1], A[i][2], A[i][3]);
31    }
32    avg_tat = (float)total / n;
33    printf("Average Waiting Time= %f", avg_wt); printf("\nAverage Turnaround Time= %f", avg_tat);
34 }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 34 Length: 1015 Insert Done parsing in 0.047 seconds

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C:\Users\sai\OneDrive\Pictures\Documents\os 4.exe

```
Enter number of process: 4
Enter Burst Time:
P1: 5
P2: 7
P3: 2
P4: 6
P BT WT TAT
P3 2 0 2
P1 5 2 7
P4 6 7 13
P2 7 13 20
Average Waiting Time= 5.500000
Average Turnaround Time= 10.500000
-----
Process exited after 13.66 seconds with return value 0
Press any key to continue . . .
```

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IN 20:41
27-09-2022 32

C:\Users\sai\OneDrive\Pictures\Documents\os 5.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Debugger (gdb) IDB-GCC 4.9.2 64-bit Release

Project Classes Debug Untitled1 os 4.cpp os 5.cpp

```
1 #include<stdio.h>
2 struct priority_scheduling {
3     char process_name;
4     int burst_time;
5     int waiting_time;
6     int turn_around_time;
7     int priority;
8 };
9 int main() {
10     int number_of_process;
11     int total = 0;
12     struct priority_scheduling temp_process;
13     int ASCII_number = 65;
14     int position;
15     float average_waiting_time;
16     float average_turnaround_time;
17     printf("Enter the total number of Processes: ");
18     scanf("%d", & number_of_process);
19     struct priority_scheduling process[number_of_process];
20     printf("\nPlease Enter the Burst Time and Priority of each process:\n");
21     for (int i = 0; i < number_of_process; i++) {
22         process[i].process_name = (char) ASCII_number;
23         printf("\nEnter the details of the process %c \n", process[i].process_name);
24         printf("Enter the burst time: ");
25         scanf("%d", & process[i].burst_time);
26         printf("Enter the priority: ");
27         scanf("%d", & process[i].priority);
28         ASCII_number++;
29     }
30     for (int i = 0; i < number_of_process; i++) {
31         position = i;
32         for (int j = i + 1; j < number_of_process; j++) {
33             if (process[j].priority > process[position].priority)
34                 position = j;
35         }
36     }
37 }
```

Line: 1 Col: 1 Sel: 0 Lines: 62 Length: 2437 Insert Done parsing in 0 seconds

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27-09-2022 32

```
C:\Users\sai\OneDrive\Pictures\Documents\os 5.exe
Enter the total number of Processes: 4

Please Enter the Burst Time and Priority of each process:

Enter the details of the process A
Enter the burst time: 6
Enter the priority: 2

Enter the details of the process B
Enter the burst time: 3
Enter the priority: 4

Enter the details of the process C
Enter the burst time: 8
Enter the priority: 1

Enter the details of the process D
Enter the burst time: 5
Enter the priority: 3

Process_name    Burst Time    Waiting Time    Turnaround Time
-----
B               3             0              3
D               5             3              8
A               6             8             14
C               8             14            22
-----

Average Waiting Time : 6.250000
Average Turnaround Time: 11.750000

-----
Process exited after 29.45 seconds with return value 0
Press any key to continue . . .
```