

Name - Naman

Roll No - 2023068

Date - 22/6/21

Section - B

Course - BSCIT

Subject - Operating System

Student ID - 20051051

```
Ques 2) #include <stdio.h>
#include <conio.h>
#include <string.h>

void main()
{
    int ct[20], at[10], n, i, j, temp, st[10], ft[10], ta[10];
    int totwt = 0, totta = 0;
    float awt, ata;
    char pn[10][10], st[10];
    // clrscr();
    printf("Enter the number of process: ");
    scanf("%d", &n);
    for (i = 0; i < n; i++)
    {
        printf("Enter process name, arrival time & execution time: ");
        // fflush();
        scanf("%s %d %d", pn[i], &st[i], &ct[i]);
    }
    for (i = 0; i < n; i++)
        for (j = 0; j < n; j++)
        {
            if (ct[i] < ct[j])
            {
                temp = at[i];
                at[i] = at[j];
                at[j] = temp;
            }
        }
}
```



```

    printf ("In Average waiting time is : %f", avg);
    printf ("In Average turnaround time is : %f", atd);
    getch ();
}

```

### Out put :

Enter the number of processor : 4  
 Enter process name, arrival time & execution time : P1 0 10  
 Enter process name, arrival time & execution : P2 0 2  
 Enter process name, arrival time & execution : P3 0 1  
 Enter process name, arrival time & execution : P4 0 4

Prname	arrival time	exection time	wating time	tot time
P3	0	1	0	1
P2	0	2	1	3
P4	0	4	3	7
P1	0	10	7	17

Average waiting time - 2.750000  
 Average turnaround time is 7.000000

*Nanah*  
 22/6/21  
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```

37         et[j]=temp;
38         strcpy(t,pn[i]);
39         strcpy(pn[i],pn[j]);
40         strcpy(pn[j],t);
41     }
42 }

```

input

```

Enter the number of process:4
Enter process name, arrival time& execution time:p1 0 10
Enter process name, arrival time& execution time:p2 0 2
Enter process name, arrival time& execution time:p3 0 1
Enter process name, arrival time& execution time:p4 0 4

```

Pname	arrivaltime	executiontime	waitingtime	tatime
p3	0	1	0	1
p2	0	2	1	3
p4	0	4	3	7
p1	0	10	7	17

```

< Average waiting time is:2.750000
Average turnaroundtime is:7.000000

```

```

...Program finished with exit code 0
Press ENTER to exit console.

```