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Ans-2.

Answers.

```
#include <stdio.h>
int main()
{
    int
    bt[20], p[20], wt[20], tat[20], i, j, n, total = 0,
    os temp;

    float avg-wt, avg-tat;
    printf("Enter number of process");
    scanf("%d", &n);
    printf("\nEnter Burst Time: \n");
    for(i=0; i<n; i++)
    {
        printf("p%d", i+1);
        scanf("%d", &bt[i]);
        p[i] = i+1;
    }
    for(i=0; i<n; i++)
    {
        pos = i;
        for(j=i+1; j<n; j++)
        {
            pos = i;
            if(bt[j] < bt[pos])
                pos = j;
        }
        temp = bt[i];
        bt[i] = bt[pos];
        bt[pos] = temp;
        temp = p[i];
        p[i] = p[pos];
        p[pos] = temp;
    }
}
```



```

    wt[0] = 0;
    for (i = 1; i < n; i++)
    {
        wt[i] = 0;
        for (j = 0; j < i; j++)
            wt[i] += bt[j];
        total += wt[i];
    }
    avg_wt = (float) total / n;
    total = 0;
    printf("\n process.1t Burst time 1t waiting  
time 1t turnaround time");
    for (i = 0; i < n; i++)
    {
        tat[i] = bt[i] + wt[i];
        total += tat[i];
        printf("\n p%d 1t 1t %.d 1t 1t %.d 1t 1t 1t %.d", p[i],  
wt[i], tat[i]);
    }
    avg_tat = (float) total / n;
    printf("\n\n Average waiting  
Time = %.f", avg_wt);
    printf("\n\n Average turnaround  
Time = %.f", avg_tat);
}

```





timepass 3.c - Code::Blocks 20.03

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<global> main() : int

"D:\bsc.it\c program\timepass 3.exe"

Enter number of process:4

Enter Burst Time:

p1:10  
p2:2  
p3:1  
p4:4

Process	Burst Time	Waiting Time	Turnaround Time
p3	1	0	1
p2	2	1	3
p4	4	3	7
p1	10	7	17

Average Waiting Time=2.750000  
Average Turnaround Time=7.000000

Process returned 0 (0x0) execution time : 19.949 s  
Press any key to continue.

```
printf("\n\nAverage Waiting Time=%f",avg_wt);  
printf("\n\nAverage Turnaround Time=%f\n",avg_tat);
```

D:\bsc.it\c program\timepass 3.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 50, Col 2, Pos 1189 Insert Read/Write default 10:44 AM 6/22/2021