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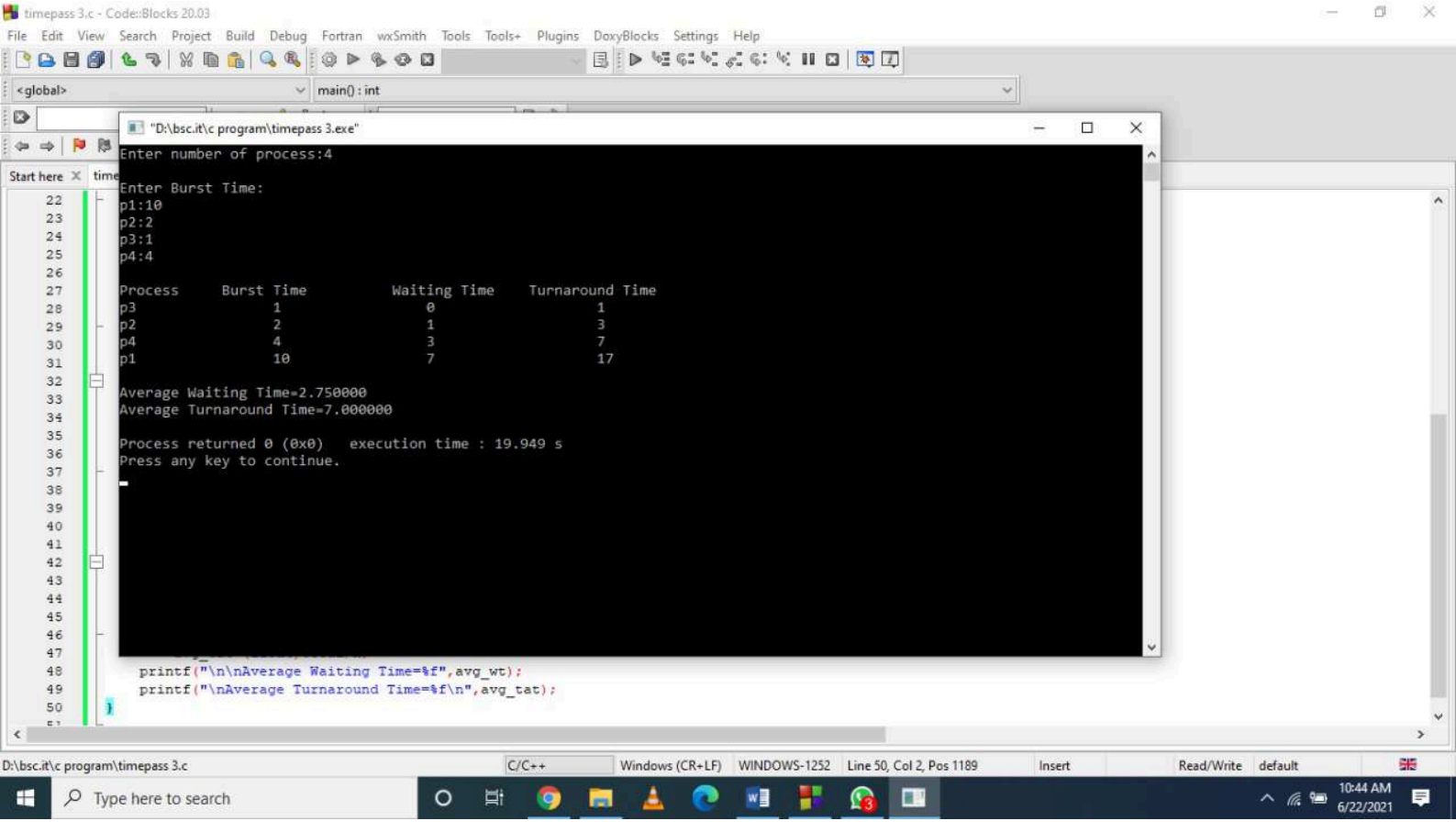
(2)

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

    float avg_wt, avg_tat;
    printf("Enter number of process:");
    scanf("%d", &n);
    printf("\n Enter 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++)
        {
            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  burst time  waiting time  turnaround time");
for(i=0; i<n; i++)
{
    tat[i] = bt[i] + wt[i];
    total += tat[i];
    printf("\n p%d  %d  %d  %d", i+1, bt[i], wt[i], tat[i]);
}
avg_tat = (float) total/n;
printf("\n average waiting time = %f", avg_wt);
printf("\n average Turnaround time = %f", avg_tat);
return 0;
}
```


timepass 3.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<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("\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
Type here to search
10:44 AM
6/22/2021