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Section → B
Subject → Operating System
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Ques2 → Each process P1, P2 ---

```
# 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 processes");
   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++)
{
```

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```
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 \t Burst time
\t Waiting Time \t Turnaround Time");
  for (i = 0; i < n; i++)
{
  tat[i] = bt[i] + wt[i];
  total += tat[i];
  printf ("\n p%d \t\t %d \t\t %d \t\t
%d", p[i], bt[i], wt[i], tat[i]);
```

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```
avg_tat = (float) total / n;
printf ("\n\n Average Waiting
Time = %f", avg_wt);
    printf ("\n\n Average Turnaround
  Time = %f\n", avg_tat);
}
```

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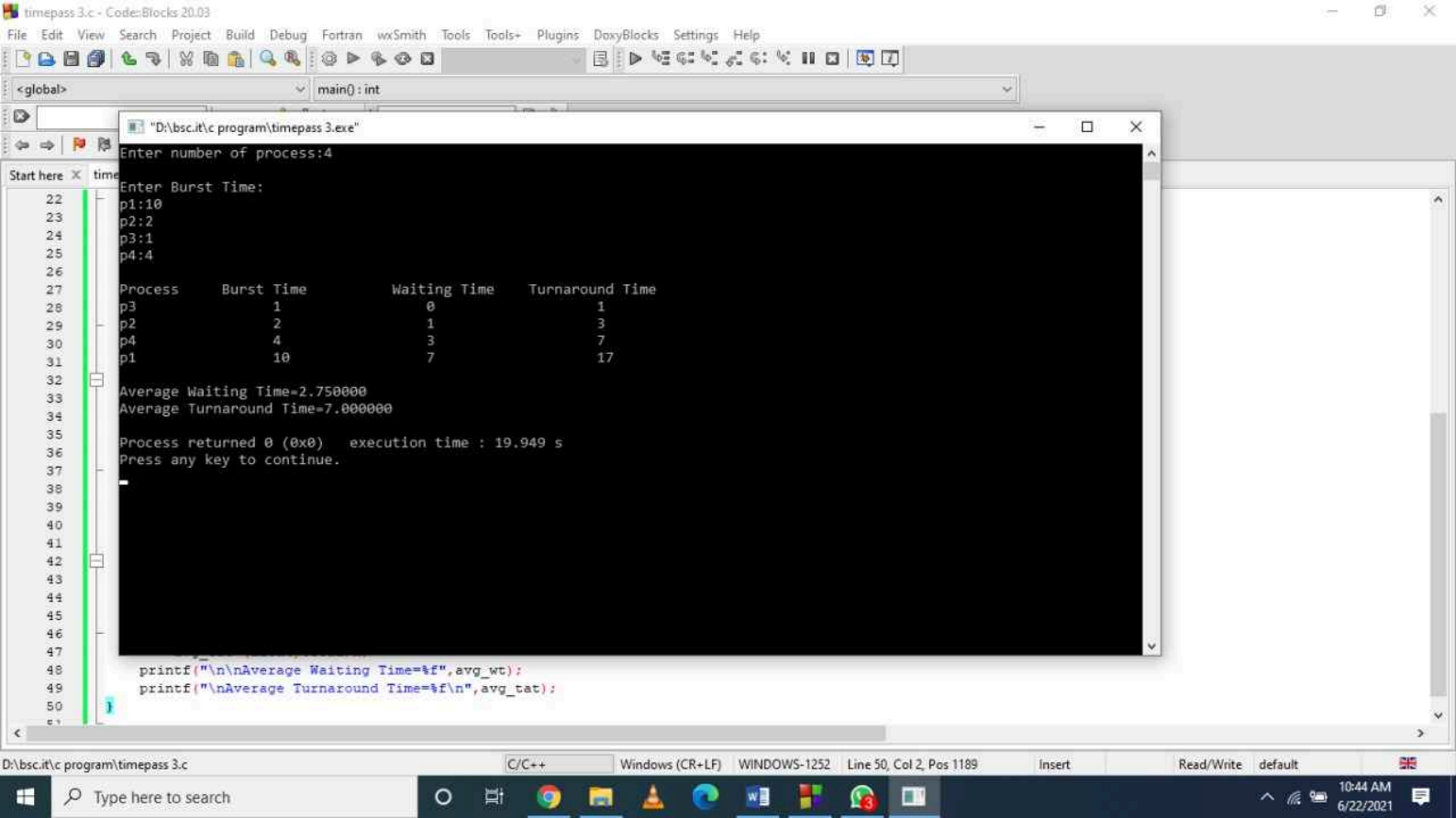
timepass 3.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
"D:\bsc.it\c program\timepass 3.exe"
Enter number of process:4
Enter Burst Time:
p1:10
p2:2
p3:1
p4:4
Process Burst Time Waiting Time Turnaround 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