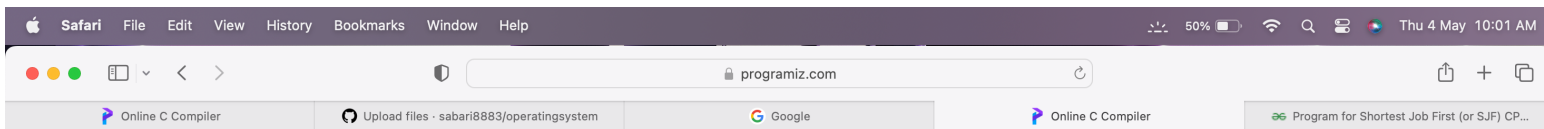


SJF



main.c

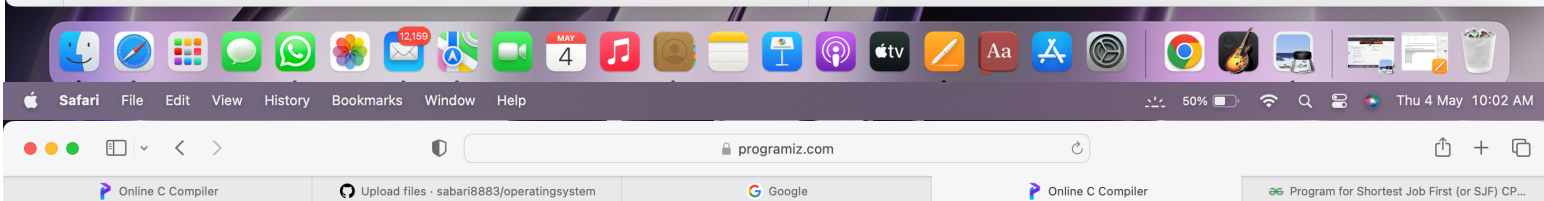
Run

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

Output

Clear

```
/tmp/09MCpjJF7t.o
Enter number of process: 4
Enter Burst Time:
P1: 6
P2: 8
P3: 7
P4: 3
P  BT  WT  TAT
P4  3  0  3
P1  6  3  9
P3  7  9  16
P2  8  16  24
Average Waiting Time= 7.000000
Average Turnaround Time= 13.000000
```



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main.c

Run

```
22     A[index][1] = temp;
23     temp = A[i][0];
24     A[i][0] = A[index][0];
25     A[index][0] = temp;
26 }
27 A[0][2] = 0;
28 for (i = 1; i < n; i++) {
29     A[i][2] = 0;
30     for (j = 0; j < i; j++)
31         A[i][2] += A[j][1];
32     total += A[i][2];
33 }
34 avg_wt = (float)total / n;
35 total = 0;
36 printf("P  BT  WT  TAT\n");
37 for (i = 0; i < n; i++) {
38     A[i][3] = A[i][1] + A[i][2];
39     total += A[i][3];
40     printf("P%d %d %d %d\n", A[i][0],
41         A[i][1], A[i][2], A[i][3]);
42 }
43 avg_tat = (float)total / n;
44 printf("Average Waiting Time= %f", avg_wt);
45 printf("\nAverage Turnaround Time= %f", avg_tat);
46 }
47
48
```

Output

Clear

```
/tmp/09MCpjJF7t.o
Enter number of process: 4
Enter Burst Time:
P1: 6
P2: 8
P3: 7
P4: 3
P  BT  WT  TAT
P4  3  0  3
P1  6  3  9
P3  7  9  16
P2  8  16  24
Average Waiting Time= 7.000000
Average Turnaround Time= 13.000000
```

