

EXP 3

```
#include <stdio.h>

int main() {

    int n, i, j;

    int bt[10], pr[10], p[10];

    int wt[10], tat[10], temp;

    printf("Enter number of processes: ");

    scanf("%d", &n);

    for(i = 0; i < n; i++) {

        p[i] = i + 1;

        printf("Enter Burst Time and Priority for P%d: ", p[i]);

        scanf("%d %d", &bt[i], &pr[i]);

    }

    // Sort by Priority

    for(i = 0; i < n; i++) {

        for(j = i + 1; j < n; j++) {

            if(pr[i] > pr[j]) {

                temp = pr[i]; pr[i] = pr[j]; pr[j] = temp;

                temp = bt[i]; bt[i] = bt[j]; bt[j] = temp;

                temp = p[i]; p[i] = p[j]; p[j] = temp;

            }

        }

    }

    wt[0] = 0;

    for(i = 1; i < n; i++)

        wt[i] = wt[i - 1] + bt[i - 1];

    for(i = 0; i < n; i++)

        tat[i] = wt[i] + bt[i];

    printf("\nProcess\tBT\tPriority\tWT\tTAT\n");
```

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for(i = 0; i < n; i++)

    printf("P%d\t%d\t%d\t\t%d\t%d\n", p[i], bt[i], pr[i], wt[i], tat[i]);

return 0;

}

```

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~/LAB$ gcc -o exp3 exp3.c
~/LAB$ ./exp3
Enter number of processes: 3
Enter Burst Time and Priority for P1: 4
5
Enter Burst Time and Priority for P2: 3
4
Enter Burst Time and Priority for P3: 5
3

```

Process	BT	Priority	WT	TAT
P2	3	4	0	3
P1	4	5	3	7
P3	5	8	7	12