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BSC.IT

GH(GEHU)

```
#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("\nEnter Burst Time:\n");
for (i = 0; i < n; i++)
{
Printf("p%d;", i+1);
Scanf("%d", &bt[i]);
P[i] = i+1;
}
// sorting of burst time
for (i = 0; i < n; i++)
```

Manvi

```
{
    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("\np %d\t %d\t %d\t %d",p[i],
bt[i],wt[i],tat[i]);
}
```

Nandi

```
avg_tat = (float) total/n;
Printf ("\n\nAverage Waiting time = %.f", avg
                                    — wt);
Printf ("\naverage Turnaround Time = %.f\n",
                    avg_tat);
    return 0;
}
```