

sem → 2

Paper TYPE → Regular

Paper Name → operating System Lab

Paper Code → PBI202

Section → 'A'

Course → BSc (IT)

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father's name →

Manohar Singh Negi  
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Campus → Dehradun

) Q10)

Tieu - - - - -

Source Code

average waiting time.

```
#include <stdio.h>
#define MAX 30
int main()
{
    int i, j, n, t, p[MAX], bt[MAX], wt[MAX], tat[MAX];
    float awt = 0, atat = 0;
    printf("Enter the number of processes(n):");
    scanf("%d", &n);
    printf("Enter the processes number (n):");
    for(i=0; i<n; i++)
    {
        scanf("%d", &p[i]);
    }
    printf("Enter the burst time of the process (n):");
    for(i=0; i<n; i++)
    {
        scanf("%d", &bt[i]);
    }
```

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Open Type + Regular

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

{ for (j=0; j < n-i-1; j++)

{ if (bf[j] > bf[j+1])

{ f = bf[j];

bf[j] = bf[j+1];

bf[j+1] = f;

f = p[j];

p[j] = p[j+1];

p[j+1] = t;

}

}

Result ("Process It Burst time + Waiting time") Turnaround

time[n];

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

{ wt[i] = 0;

tat[i] = 0;

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

{

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i.)

$$wt[i] = 0;$$

$$tat[i] = 0;$$

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

$$wt[i] = wt[i] + bt[j];$$

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

$$awt = awt + wt[i];$$

$$atat = atat + tat[i];$$

printf("%d\n", f(i),  
bt[i], wt[i], tat[i]);

}

answering;

}

Since SJF provides minimum average waiting time.

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Course → FSC (IT)

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```
#include <stdio.h>
#define MAX 30
int main ()
{
    int i, j, n, p[MAX], bt[MAX], wt[MAX],
        atat=0, atot=0;
    printf("Enter the number of process [n]");
    scanf("%d", &n);
    printf("Enter the process number [n]");
    for(i=0; i<n; i++)
    {
        scanf("%d", &p[i]);
    }
    printf("Enter the burst time of the process [n]");
    for(i=0; i<n; i++)
    {
        scanf("%d", &bt[i]);
    }
    for(i=0; i<n; i++)
    {
        for(j=0; j<n-i-1; j++)
    }
```

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Q2) if ( $b[t[j]] > b[t[j+1]]$ )

$$\{ \quad t = b[t[j]]; \quad$$

$$b[t[j]] = b[t[j+1]]; \quad$$

$$b[t[j+1]] = t; \quad$$

$$t = p[t[j]]; \quad$$

$$p[t[j]] = p[t[j+1]]; \quad$$

$$p[t[j+1]] = t; \quad$$

}

}

}

printf("Process %d Burst time %d waiting time %d turnaround  
time %d\n");

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

$$\{ \quad wt[i] = 0;$$

$$tat[i] = 0;$$

for ( $j=0; j < i; j++$ )

{

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$$awt[i] = wtf[i] + btf[j];$$

$$fat[i] = wtf[i] + btf[i];$$

$$awt = awt + wtf[i];$$

$$atat = atat + fat[i];$$

printf("%s.%d").if i.d { f (+) d lf (f - r.d \n) p[i],  
at[i], wtf[i], fat[i]);

}

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