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Semester - IInd
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Mock Test

Operating System

Q-> WAP to implement fcfs scheduling algo.

Sol -> Code :-

```c
#include <stdio.h>
#include <string.h>
    int main()
{
    char ph[10][10], t[10];
    int arr[10], bur[10], star[10], CT[10], tat[10]
    wt[10], i, j, n, temp;

    int tottat = 0, totat = 0;
    Print f ("Enter the processes number :");
    scanf ("%d", &n);
    for (i=0; i<n ; i++)

    {
```

```c
Pintf ("Enter the Process name, Arrival time &
            Burst Time :")
Scanf ("%as %d %d ",&ph[i],&arr &bur[i]);
}

    for (i=0; i<n; i++)
{
    for (j=0; j<n; j++)
{
    if (arr[i] < arr[j])
    {
            temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;
            temp = bur[i];
            bur[j] = temp;
            strcpy (t, pn[i]);
            strcpy (Pn[i], pn[j]);
            strcpy (pn[j],t);
    }
}
3
3
```

```c
for (i = 0; i < n; i++)
{
    if (i == 0)
        star[i] = arr[i];
    else
        star[i] = CT[i-1];
        wt[i] = star[i] - arr[i];
        CT[i] = star[i] + bur[i];
        tat[i] = CT[i] - arr[i];
    }
    Printf("\n PName \t Arr time \t bur time \
        t wait time start TAT \t CT \t");
    for(i = 0; i < n; i++)
    {
        Printf("\n%s\t%3d\t%3d \t%3d\
        t%3d %2d\t%2d", Pn[i], arr[i], bur[i]
        wt[i], star[i], tat[i], CT[i];
        totwt += wt[i];
        tottat += tat[i];
    }
    Printf("\nAverage waiting time : %0.2f",
        (float) totwt/n);
```

```c
Printf ("\n Average Turn Around time : % 0.2f",
        (float) toltat/n);
    Return 0;
}
```

```
            strcpy(pn[j],t);
        }
    }
```

\Users\AmanSenpai\Documents\ds.exe

the number of processes:4
the ProcessName, Arrival Time& Burst Time:p0

the ProcessName, Arrival Time& Burst Time:p1

the ProcessName, Arrival Time& Burst Time:p2

the ProcessName, Arrival Time& Burst Time:p3

    Arrtime Burtime WaitTime Start TAT   CT
       0   6   0   0   6   6
       1   8   5   6   13   14
       2   10   12   14   22   24
       3   11   21   24   32   35
ge Waiting time: 9.50
ge Turn Around Time:18.25
----
ss exited after 54.23 seconds with return value 0
 any key to continue . . .
```