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Course - BCA 5A

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Subject - Mid Back Operating system Practical

Q1) #include <stdio.h>

int main()

{

int at[10], at2[10], bt[100], ex[100], seq[100], re[100], ut[100], +at[100];

int n, i, j, start, pos, max = 0, min, idle = 0, k = 0;

float av1 = 0, av2 = 0;

printf("** INPUT **\n");

printf("Enter number of process\n");

scanf("%d", &n);

printf("Enter arrival time for process\n");

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

{

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

at2[i] = at[i];

}

printf("Enter burst time for process\n");

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

{

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

}

start = at[0];

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

{

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```
if (start > at[i])
```

```
{  
    start = at[i];
```

```
}
```

```
}  
printf ("** OUTPUT ** \n");
```

```
printf ("Sequence of execution is \n");
```

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

```
{
```

```
    if (max < at[i])
```

```
{
```

```
        max = at[i];
```

```
}
```

```
}
```

```
    max = max + 1;
```

```
    for (i = 0; i < n; i++, k++)
```

```
    { min = max;
```

```
        for (j = 0; j < n; j++) {
```

```
            if (at[j] != -1)
```

```
{
```

```
                if (at[j] < min)
```

```
{
```

```
                    min = at[j];
```

```
                    pos = j;
```

```
}
```

```
}
```

```
}
```

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```
printf("P %d", pos);
```

```
serv[k] = pos;
```

```
if (start < at[pos]) {
```

```
    res[pos] = start;
```

```
    idle += at[pos] - start;
```

```
    start = at[pos];
```

```
    start += bt[pos];
```

```
    at[pos] = -1;
```

```
    ex[pos] = start;
```

```
}
```

```
else {
```

```
    res[pos] = start;
```

```
    start += bt[pos];
```

```
    at[pos] = -1;
```

```
    ex[pos] = start;
```

```
}
```

```
{
```

```
    printf("\n");
```

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

```
    {
```

```
        tat[i] = ex[i] - at2[i];
```

```
        wt[i] = tat[i] - bt[i];
```

```
    }
```

```
    printf("Process Arrival-time(s) Burst-time(s) Waiting-time(s)  
Turnaround-time(s)\n");
```

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

```
    {
```

```
        printf("P %d %d %d %d %d\n", i, at2[i], bt[i],
```

```
wt[i], tat[i]);
```

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}

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

{

av1 += tat[i];

av2 += wt[i];

}

printf("Average waiting time (s) :- %f\n", av2/n, av1/n, idle);

}

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