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Course = Bsc it

Section = B

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Q1

Ans

```
#include <stdio.h>
```

```
signed int heap[1000]
```

```
int main()
```

```
{  
    int i, j, a[10], b[10], temp[10], temp1, avg=0, tt=0, n;
```

```
    printf("enter the number of process: \n");
```

```
    scanf("%d", &n);
```

```
    printf("enter arrival time \n");
```

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

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

```
    printf("enter burst time \n");
```

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

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

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

```
        for(j=1; j<n; j++)
```

```
            if(b[j] > b[j+1])
```

```
            {
```

```
                temp1 = b[j];
```

```
                b[j] = b[j+1];
```

```
                b[j+1] = temp1;
```

```
            }
```

```
    temp[0] = 0;
```

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

```
        temp[i+1] = temp[i] + b[i];
```

```
printf("In int t[10];
```

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

```
{
```

```
    t[i] = temp[i] - a[i];
```

```
    avg = avg + temp[i] - a[i];
```

```
}
```

```
for printf("waiting time\n");
```

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

```
{
```

```
    printf("waiting time %d", t[i])
```

```
}
```

```
avg = avg/n;
```

```
printf("In the Average WT is %d", avg);
```

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

```
    tt = tt + temp[i] - a[i-1];
```

```
    tt = tt + temp[1];
```

```
    tt = tt/n;
```

```
printf("The average TT is %d", tt);
```

```
return 0;
```

```
}
```

Sachin