

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int i, n, qt, count=0, temp, sq=0, bt[10],
    wt[10], tat[10], rem-bt[10];
    float awt=0, atat=0;
    clrscr();
    printf ("Enter no. of process");
    scanf ("%d", &n);
    printf ("Enter the burst time of process");
    for (i=0; i<n; i++)
    {
        scanf ("%d", &bt[i]);
        rem-bt[i] = bt[i];
    }
    printf ("Enter quantum time");
    scanf ("%d", &qt);
    while (1)
    {
        for (i=0; i<n; i++)
        {
            temp = qt;
            if (rem-bt[i] > 0)
            {
                sq = sq + temp;
                wt[i] = wt[i] + temp;
                rem-bt[i] = rem-bt[i] - temp;
            }
            else if (rem-bt[i] == 0)
            {
                atat = atat + wt[i];
                awt = awt + wt[i]/n;
                count = count + 1;
                rem-bt[i] = bt[i];
            }
        }
        if (count == n)
        {
            printf ("Average waiting time = %f", awt);
            printf ("Average turnaround time = %f", atat/n);
            break;
        }
    }
}
```

```
if (rem_bt[i] == 0)
```

```
{
```

```
    Count++;
```

```
    continue;
```

```
}
```

```
if (rem_bt[i] > qt)
```

```
    rem_bt[i] = rem_bt[i] - qt;
```

```
else
```

```
    if (rem_bt[i] >= 0)
```

```
    {
```

```
        temp = rem_bt[i];
```

```
        rem_bt[i] = 0;
```

```
    }
```

```
    sq = sq + temp;
```

```
    tat[i] = sq;
```

```
}
```

```
if (n == count)
```

```
    break;
```

```
}
```

```
printf("In Process BT \t TAT \t WT \n");
```

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

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

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

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

```
printf("In %d\t %d\t %d\t %d\t %d\t",  
i+1, b[cis], bat[cis], w[cis],
```

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$$a_{wt} = a_{wt}/n_i$$
$$a_{tat} = a_{tat}/n;$$

Print & ("avg wainny time ~~1.5~~ ", awei);

Print C "In avg turnaround time is: ", (at at), "

```
gethcs;
```

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