## Ex No. 3A. Program for Multi-level Feedback scheduling

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Let us assume that all the processes arrive at the same time at time 0. So we don't need to consider arrival time for scheduling

Process	P0	P1	P2	<b>P3</b>	P4	P5
BT	4	3	6	2	5	8
FT	14	15	19	8	22	28

Number of queues: 2

Time quantum for each queue: 2,4

## TQ=2

1-2	2-4	4-6	6-8	8-10	10-12		
P0(2)	P1(1)	P2(4)	P3(0)	P4(3)	P5(6)		

## TQ=4

26-28					
P5(0)					

```
Program:
```

```
scanf("%d",&tqq[i]);
printf("Enter number of processes:");
scanf("%d",&n);
for(i=0;i<n;i++)
{
    printf("Enter BT of process P%d: ",i);
    scanf("%d",&rdq[i].bt);
    rdq[i].rbt=rdq[i].bt;
}
while(completed <n)
    if(qlevel<qcount) // Reached last level queue or not
    {
            tq=tqq[qlevel];
            qlevel++;
    }
    for(i=0;i<n;i++)
            if(rdq[i].rbt!=0) // process not yet completed
                     if(rdq[i].rbt<=tq ) //remaining burst time is <= time</pre>
                     //quantum
                     {
                             ct+=rdq[i].rbt;
                             rdq[i].rbt=0;
                             rdq[i].ft=ct;
                             completed++;
                     }
                     else //remaining burst time is > time quantum
                             ct+=tq;
                             rdq[i].rbt-=tq;
                     }
            }
    }
printf("PID\t BT\t FT\n");
for(i=0;i<n;i++)
{
    printf("P%d\t%d\t%d\n",i,rdq[i].bt,rdq[i].ft);
}
```

}