```
TT J1 = 200
              RTJ, = O
                        WT,=RB,
FIFO/ JL = 400
              . 25 = 500
STF 33 = 600 33 = 400
  TT w = 400 RT = 200 WTw = 200
  6) JI=100 J2=200, J3=300
FIFO/ 1 100 / 200 | 300 | 55F 0 | 600
  TTJ1 = 100 RTJ1 = 0 WT = RT
  JZ = 300 JZ = 100
    J3 = 600 J3 = 300
 TTW = 333.5 KTW = 133,5
 (3) RR - Round Robin time-slice = 1
   J1=100, J2=200, J3=300
  T53 = 600 RF3 = 2 WT33 = 600-30
   Tow = 465.67 RTay = 1 Wtow = 25.67
```

time-slice = 50

$$TT_{J1} = 200$$
 $RT_{J1} = 0$ $WT_{J1} = 100$
 $52 = 450$ $T_{2} = 50$ $WT_{J2} = 250$
 $T_{3} = 600$ $T_{3} = 300$

Tw= 416.6% RTw = SO Www = 2k.67

- 4) When job length is either same or the sequence of jobs coming in is in increasing job length.
- 3) SJF delivers same responsetione as RR, what quantum lengths (time-office)

Higher time-slice, like we can see above with time-slice of 50 RT & bumps to SO To get SJF value (133.5) we should bump it further RU1+7 (00

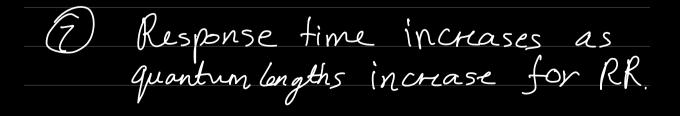
K75, = 0, JZ = 100,

RT= 100

With time-slice greater than or close to finish whole job

hesponse time increases for SIF with increase in job lengths.

```
Here is the job list, with the run time of each job:
Job 0 ( length = 10.0 )
Job 1 ( length = 20.0 )
Job 2 ( length = 30.0 )
                                                                                                                                             Here is the job list, with the run time of each job:
                                                                                                                                                Job 0 ( length = 100.0 )
Job 1 ( length = 200.0 )
Job 2 ( length = 300.0 )
** Solutions **
                                                                                                                                            ** Solutions **
                                                                                                                                             Execution trace:
Execution trace:
                                                                                                                                                [ time 0 ] Run job 0 for 100.00 secs ( DONE at 100.00 )
[ time 100 ] Run job 1 for 200.00 secs ( DONE at 300.00 )
[ time 300 ] Run job 2 for 300.00 secs ( DONE at 600.00 )
    [ time 0 ] Run job 0 for 10.00 secs ( DONE at 10.00 )
[ time 10 ] Run job 1 for 20.00 secs ( DONE at 30.00 )
[ time 30 ] Run job 2 for 30.00 secs ( DONE at 60.00 )
Final statistics:
                                                                                                                                                Job 0 -- Response: 0.00 Turnaround 100.00 Wait 0.00
Job 1 -- Response: 100.00 Turnaround 300.00 Wait 100.00
Job 2 -- Response: 300.00 Turnaround 600.00 Wait 300.00
    Job 0 -- Response: 0.00 Turnaround 10.00 Wait 0.00
Job 1 -- Response: 10.00 Turnaround 30.00 Wait 10.00
Job 2 -- Response: 30.00 Turnaround 60.00 Wait 30.00
                                                                                                                                                 Average -- Response: 133.33 Turnaround 333.33 Wait 133.33
    Average -- Response: 13.33 Turnaround 33.33 Wait 13.33
                                                                              Here is the job list, with the run time of each job:
                                                                                  Job 0 ( length = 400.0 )
Job 1 ( length = 800.0 )
Job 2 ( length = 1000.0 )
                                                                               ** Solutions **
                                                                                  [ time 0 ] Run job 0 for 400.00 secs ( DONE at 400.00 )
[ time 400 ] Run job 1 for 800.00 secs ( DONE at 1200.00 )
[ time 1200 ] Run job 2 for 1000.00 secs ( DONE at 2200.00 )
                                                                                  Job 0 -- Response: 0.00 Turnaround 400.00 Wait 0.00
Job 1 -- Response: 400.00 Turnaround 1200.00 Wait 400.00
Job 2 -- Response: 1200.00 Turnaround 2200.00 Wait 1200.00
                                                                                  Average -- Response: 533.33 Turnaround 1266.67 Wait 533.33
```



Worst-ase response time equation Njobs

All jobs (N-1) are <= quantum length then the last job response time will be summation of job lengths (N-1)

 $RT_N = J_0 + \dots + J_{N-1}$ Excumple - 200, 200, 300, 300 $q_1 = 300$

RTJ4 = 200+200+300= 700