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Scheduling Process Queue 1:
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    Process A [arrivalTime=0.000000, expectedRunTime=1, priority=4]
    Process B [arrivalTime=2.392130, expectedRunTime=3, priority=3]
    Process C [arrivalTime=4.101510, expectedRunTime=10, priority=1]
    Process D [arrivalTime=9.076006, expectedRunTime=3, priority=3]
    Process E [arrivalTime=9.358302, expectedRunTime=10, priority=4]
    Process F [arrivalTime=14.271805, expectedRunTime=6, priority=2]
    Process G [arrivalTime=17.877575, expectedRunTime=7, priority=1]
    Process H [arrivalTime=26.865806, expectedRunTime=4, priority=4]
    Process I [arrivalTime=33.404211, expectedRunTime=3, priority=3]
    Process J [arrivalTime=38.598428, expectedRunTime=3, priority=3]
    Process K [arrivalTime=43.786903, expectedRunTime=5, priority=1]
    Process L [arrivalTime=45.434962, expectedRunTime=3, priority=1]
    Process M [arrivalTime=53.594409, expectedRunTime=7, priority=3]
    Process N [arrivalTime=58.200266, expectedRunTime=5, priority=1]
    Process O [arrivalTime=65.751258, expectedRunTime=4, priority=2]
    Process P [arrivalTime=70.507303, expectedRunTime=9, priority=1]
    Process Q [arrivalTime=74.440040, expectedRunTime=3, priority=1]
    Process R [arrivalTime=80.059636, expectedRunTime=4, priority=2]
    Process S [arrivalTime=82.242388, expectedRunTime=8, priority=4]
    Process T [arrivalTime=85.509864, expectedRunTime=6, priority=2]

First Come First Served
    A__BBBCCCCCCCCCCDDDEEEEEEEEEEFFFFFFGGGGGGGHHHHIIIJJJKKKKKLLLMMMMMMMNNNNNOOOOPPPPPPPPPQQQRRRRSSSSSSSSSTTTTTT
    Turnaround: 13.600 Waiting: 8.400 Response: 5.200 Throughput: 18.868

Shortest Job First
    A__BBBCCCCCCCCCCFFFFFFGGGGGGGDDDHHHHIIIJJJEEEEEEEEEELLLKKKKKNNNNNMMMMMMMPPPPPPPPPQQQOOOORRRRTTTTTTSSSSSSSS
    Turnaround: 12.500 Waiting: 7.300 Response: 5.200 Throughput: 18.868

Shortest Remaining Time
    A__BBBCCCCDDDCCCCCCFFFFFFGGHHHHGGGGGIIIJJJEEKKKKKLLLEEEEEEEENNNNNMOOOOMMMMMQQQPPRRRRPPPPPPPTTTTTTSSSSSSSS
    Turnaround: 6.350 Waiting: 5.700 Response: 5.550 Throughput: 18.868

Round Robin
    A__BBCBCCCDECDEFCDGEFCGEFCGHEFCGHEIFCGHJEIFGKHLJEIGKLJMEKLMNEKMNKMONMONPMONQPMOQPRQSPRTSPRTSPRTSPTSPTSPTSS
    Turnaround: 19.300 Waiting: 14.150 Response: 1.050 Throughput: 18.868

Non-Preemptive Highest Priority First
    A__BBBCCCCCCCCCCFFFFFFGGGGGGGDDDEEEEEEEEEEIIIKKKKKLLLJJJMMMMMMMNNNNNOOOOPPPPPPPPPQQQRRRRTTTTTTHHHHSSSSSSSS
    Turnaround: 14.000 Waiting: 8.800 Response: 5.200 Throughput: 18.868

Preemptive Highest Priority First  (RR switching between same priority processes)
    A__BBCCCCCCCCCCFFFGGGGGGGFFFDBDDEHIIIEHJJJEHKKLKLKLKEHMMMMMNNNNNMMOOOOEPPPPQPQPQPPPRRRTRTTTTTSESESESESESSS
    Turnaround: 11.800 Waiting: 9.500 Response: 3.900 Throughput: 18.868

*******(Bonus)********* Non-Preemptive Highest Priority First with Aging
    A__BBBCCCCCCCCCCFFFFFFGGGGGGGDDDEEEEEEEEEEHHHHKKKKKLLLIIIJJJMMMMMMMNNNNNOOOOPPPPPPPPPQQQRRRRTTTTTTSSSSSSSS
    Turnaround: 13.700 Waiting: 8.500 Response: 5.200 Throughput: 18.868

*******(Bonus)********* Preemptive Highest Priority First with Aging
    A__BBCBCCCCCCCCCCDDDEEEEEEEEEEFFFFFFGGGGGGGHHHHIIIJJJKKKKKLLLMMMMMMMNNNNNOOOOPPPPPPPPPQQQRRRRSSSSSSSSSTTTTTT
    Turnaround: 5.300 Waiting: 8.450 Response: 9.350 Throughput: 18.868
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Scheduling Process Queue 2:
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    Process A [arrivalTime=0.000000, expectedRunTime=6, priority=2]
    Process B [arrivalTime=6.071085, expectedRunTime=8, priority=2]
    Process C [arrivalTime=10.441327, expectedRunTime=4, priority=3]
    Process D [arrivalTime=16.122449, expectedRunTime=7, priority=4]
    Process E [arrivalTime=18.169461, expectedRunTime=3, priority=2]
    Process F [arrivalTime=23.719611, expectedRunTime=5, priority=3]
    Process G [arrivalTime=30.680110, expectedRunTime=6, priority=2]
    Process H [arrivalTime=40.493587, expectedRunTime=7, priority=4]
    Process I [arrivalTime=43.819533, expectedRunTime=8, priority=3]
    Process J [arrivalTime=50.844906, expectedRunTime=8, priority=2]
    Process K [arrivalTime=59.319169, expectedRunTime=9, priority=1]
    Process L [arrivalTime=67.491344, expectedRunTime=8, priority=4]
    Process M [arrivalTime=76.901886, expectedRunTime=8, priority=2]
    Process N [arrivalTime=86.608469, expectedRunTime=9, priority=1]
    Process O [arrivalTime=87.448192, expectedRunTime=7, priority=3]

First Come First Served
    AAAAAA_BBBBBBBBCCCCDDDDDDDEEEFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOO
    Turnaround: 10.533 Waiting: 3.667 Response: 6.867 Throughput: 14.286

Shortest Job First
    AAAAAA_BBBBBBBBCCCCEEEDDDDDDDFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOO
    Turnaround: 10.267 Waiting: 3.400 Response: 6.867 Throughput: 14.286

Shortest Remaining Time
    AAAAAA_BBBBBBBBCCCCEEEDDDDDDDFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMOOOOOOONNNNNNNNN
    Turnaround: 6.867 Waiting: 3.267 Response: 4.267 Throughput: 14.286

Round Robin
    AAAAAA_BBBBCBCBCBDCEBDEDFEDFDFDGFDGFGGGG_HHHIHIHIHIJHIJIJIJIKJKJKJKJLKLKLKLKLMKLMLMLMMMNOMNOMNONONONONN
    Turnaround: 13.467 Waiting: 6.600 Response: 1.000 Throughput: 14.286

Non-Preemptive Highest Priority First
    AAAAAA_BBBBBBBBCCCCEEEDDDDDDDFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOO
    Turnaround: 10.267 Waiting: 3.400 Response: 6.867 Throughput: 14.286

Preemptive Highest Priority First  (RR switching between same priority processes)
    AAAAAA_BBBBBBBBCCCCEEEDDFFFFFDDGGGGGGGDDD_HHHIIIIIIIIJJJJJJJJIKKKKKKKKKLHLHLHLHMMMMMMMMLLNNNNNNNNNOOOOOOOLL
    Turnaround: 11.933 Waiting: 6.267 Response: 2.200 Throughput: 14.286

*******(Bonus)********* Non-Preemptive Highest Priority First with Aging
    AAAAAA_BBBBBBBBCCCCEEEDDDDDDDFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOO
    Turnaround: 10.267 Waiting: 3.400 Response: 6.867 Throughput: 14.286

*******(Bonus)********* Preemptive Highest Priority First with Aging
    AAAAAA_BBBBBBBBCCCCDEDEDEDDDDDFFFFFGGGGGG_HHHHHHHIIIIIIIIJJJJJJJJKKKKKKKKKLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOO
    Turnaround: 7.200 Waiting: 3.600 Response: 4.267 Throughput: 14.286
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Scheduling Process Queue 3:
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    Process A [arrivalTime=0.000000, expectedRunTime=4, priority=1]
    Process B [arrivalTime=2.016151, expectedRunTime=7, priority=1]
    Process C [arrivalTime=5.954202, expectedRunTime=1, priority=1]
    Process D [arrivalTime=15.246672, expectedRunTime=10, priority=1]
    Process E [arrivalTime=15.529698, expectedRunTime=2, priority=3]
    Process F [arrivalTime=22.758785, expectedRunTime=8, priority=2]
    Process G [arrivalTime=29.757867, expectedRunTime=7, priority=1]
    Process H [arrivalTime=32.342824, expectedRunTime=3, priority=1]
    Process I [arrivalTime=33.979753, expectedRunTime=6, priority=3]
    Process J [arrivalTime=38.147959, expectedRunTime=5, priority=4]
    Process K [arrivalTime=38.310763, expectedRunTime=1, priority=1]
    Process L [arrivalTime=41.534909, expectedRunTime=4, priority=1]
    Process M [arrivalTime=50.201280, expectedRunTime=3, priority=1]
    Process N [arrivalTime=59.941065, expectedRunTime=9, priority=1]
    Process O [arrivalTime=61.537684, expectedRunTime=10, priority=1]
    Process P [arrivalTime=67.634018, expectedRunTime=9, priority=2]
    Process Q [arrivalTime=70.365431, expectedRunTime=9, priority=1]
    Process R [arrivalTime=74.391417, expectedRunTime=7, priority=3]
    Process S [arrivalTime=79.177584, expectedRunTime=1, priority=1]
    Process T [arrivalTime=81.749619, expectedRunTime=6, priority=4]

First Come First Served
    AAAABBBBBBBC____DDDDDDDDDDEEFFFFFFFFFGGGGGGGGHHHIIIIIIIJJJJJKLLLLMMMNNNNNNNNNOOOOOOOOOOPPPPPPPPPQQQQQQQQQ
    Turnaround: 15.294 Waiting: 9.529 Response: 5.765 Throughput: 15.596

Shortest Job First
    AAAABBBBBBBC____DDDDDDDDDDFFFFFFFFHHHGGGGGGGKLLLLEEMMMIIIIIINNNNNNNNNOOOOOOOOOOQQQQQQQQQSPPPPPPPPPRRRRRRR
    Turnaround: 13.667 Waiting: 8.056 Response: 5.611 Throughput: 16.364

Shortest Remaining Time
    AAAABBCBBBBB____DEEDDDDDDDDDFFFFFFFFFHHHKJJJJJLLLLLIIMMMIIIIGGGGGGGNNNNNNNNNPRRRRRSRRTTTTTTTPPPPPPPPPQQQQQQQQQ
    Turnaround: 6.474 Waiting: 6.105 Response: 6.000 Throughput: 17.757

Round Robin
    AAABABCBBBBB____DEDEDDDFDFDFDFGDFHIGDFHJKILGFHJILGFMJILGMJILNGOMJINGPONQPONRQPONSRTQPONRTQPONRTQPONRTQPORTQPOQ
    Turnaround: 23.200 Waiting: 17.700 Response: 1.100 Throughput: 17.241

Non-Preemptive Highest Priority First
    AAAABBBBBBBC____DDDDDDDDDDFFFFFFFFFGGGGGGGGHHHKLLLLEEMMMIIIIIINNNNNNNNNOOOOOOOOOOQQQQQQQQQSPPPPPPPPPRRRRRRR
    Turnaround: 13.889 Waiting: 8.278 Response: 5.611 Throughput: 16.364

Preemptive Highest Priority First  (RR switching between same priority processes)
    AAABABCBBBBB____DDDDDDDDDDFFFFGGGHGHGHGKGFLLLLFFFEIMMMEIIIIINNONONONONONOQNOQNOQNOSQOQOQQQQPPPPPPPPPRRRRRRR
    Turnaround: 9.167 Waiting: 8.889 Response: 6.333 Throughput: 16.981

*******(Bonus)********* Non-Preemptive Highest Priority First with Aging
    AAAABBBBBBBC____DDDDDDDDDDFFFFFFFFFGGGGGGGGHHHEEKIIIIIIILLLLJJJJJMMMNNNNNNNNNOOOOOOOOOOQQQQQQQQQPPPPPPPPP
    Turnaround: 15.412 Waiting: 9.647 Response: 5.765 Throughput: 16.505

*******(Bonus)********* Preemptive Highest Priority First with Aging
    AAAABBBBBBBC____DDDDDDDDDDEEFFFFFFFFFGGGGGGGGHHHIIIIIIIKJLJLJLJLJMMMNNNNNNNNNOOOOOOOOOOPPPPPPPPPQQQQQQQQQ
    Turnaround: 6.176 Waiting: 9.471 Response: 10.059 Throughput: 16.505
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Scheduling Process Queue 4:
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    Process A [arrivalTime=0.000000, expectedRunTime=4, priority=1]
    Process B [arrivalTime=5.024845, expectedRunTime=2, priority=3]
    Process C [arrivalTime=9.029201, expectedRunTime=6, priority=2]
    Process D [arrivalTime=14.301865, expectedRunTime=3, priority=3]
    Process E [arrivalTime=16.495423, expectedRunTime=9, priority=1]
    Process F [arrivalTime=25.023666, expectedRunTime=6, priority=3]
    Process G [arrivalTime=34.619775, expectedRunTime=7, priority=1]
    Process H [arrivalTime=38.502392, expectedRunTime=1, priority=2]
    Process I [arrivalTime=45.775703, expectedRunTime=3, priority=3]
    Process J [arrivalTime=47.141172, expectedRunTime=4, priority=3]
    Process K [arrivalTime=53.659334, expectedRunTime=4, priority=1]
    Process L [arrivalTime=59.238195, expectedRunTime=3, priority=1]
    Process M [arrivalTime=67.094710, expectedRunTime=3, priority=3]
    Process N [arrivalTime=72.684674, expectedRunTime=8, priority=3]
    Process O [arrivalTime=79.538158, expectedRunTime=9, priority=2]
    Process P [arrivalTime=81.648539, expectedRunTime=2, priority=4]
    Process Q [arrivalTime=83.814347, expectedRunTime=1, priority=1]
    Process R [arrivalTime=90.433212, expectedRunTime=8, priority=1]
    Process S [arrivalTime=92.746362, expectedRunTime=3, priority=1]

First Come First Served
    AAAA__BB__CCCCCCCDDDEEEEEEEEEEEFFFFFFF_GGGGGGGH___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOOOOOOOOOPPQRRRRRRRR
    Turnaround: 6.167 Waiting: 1.556 Response: 4.611 Throughput: 17.308

Shortest Job First
    AAAA__BB__CCCCCCCDDDEEEEEEEEEEEFFFFFFF_GGGGGGGH___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOOOOOOOOOQRRRRRRRRSSS
    Turnaround: 5.889 Waiting: 1.222 Response: 4.667 Throughput: 17.308

Shortest Remaining Time
    AAAA__BB__CCCCCCCDDDEEEEEEEEEEEFFFFFFF_GGGGHGGG___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOPPQOOOOOOOOSSSRRRRRRRR
    Turnaround: 4.737 Waiting: 0.842 Response: 1.632 Throughput: 18.269

Round Robin
    AAAA__BB__CCCCCDCEDEDEEEEEFEFEFFFF_GGGGHGGG___IIJIJJJ_KKKK__LLL_____MMM__NNNNNNNONPOQPOOOOOROSROSRSRRRRR
    Turnaround: 6.158 Waiting: 1.632 Response: 1.000 Throughput: 18.269

Non-Preemptive Highest Priority First
    AAAA__BB__CCCCCCCDDDEEEEEEEEEEEFFFFFFF_GGGGGGGH___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOOOOOOOOOQRRRRRRRRSSS
    Turnaround: 5.889 Waiting: 1.222 Response: 4.667 Throughput: 17.308

Preemptive Highest Priority First  (RR switching between same priority processes)
    AAAA__BB__CCCCCCCDEEEEEEEEEEEFDFDFFFF_GGGGGGGH___IIJIJJJ_KKKK__LLL_____MMM__NNNNNNNOOOOQOOOOONRRSRSRSRRRRR
    Turnaround: 6.389 Waiting: 1.944 Response: 1.222 Throughput: 17.476

*******(Bonus)********** Non-Preemptive Highest Priority First with Aging
    AAAA__BB__CCCCCCCDDDEEEEEEEEEEEFFFFFFF_GGGGGGGH___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOOOOOOOOOQRRRRRRRRSSS
    Turnaround: 5.889 Waiting: 1.222 Response: 4.667 Throughput: 17.308

*******(Bonus)********** Preemptive Highest Priority First with Aging
    AAAA__BB__CCCCCCCDEDEDEEEEEEEEEEEFFFFFFF_GGGGGGGH___IIIJJJJ_KKKK__LLL_____MMM__NNNNNNNNOOOOOOOOOQPPRRRRRRRR
    Turnaround: 4.833 Waiting: 1.611 Response: 2.389 Throughput: 17.647
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Scheduling Process Queue 5:
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    Process A [arrivalTime=0.000000, expectedRunTime=4, priority=1]
    Process B [arrivalTime=4.783317, expectedRunTime=3, priority=3]
    Process C [arrivalTime=13.923534, expectedRunTime=10, priority=1]
    Process D [arrivalTime=16.854270, expectedRunTime=8, priority=3]
    Process E [arrivalTime=25.274868, expectedRunTime=4, priority=3]
    Process F [arrivalTime=33.871608, expectedRunTime=9, priority=4]
    Process G [arrivalTime=35.049236, expectedRunTime=5, priority=4]
    Process H [arrivalTime=41.333732, expectedRunTime=8, priority=1]
    Process I [arrivalTime=42.213757, expectedRunTime=4, priority=3]
    Process J [arrivalTime=52.065249, expectedRunTime=8, priority=2]
    Process K [arrivalTime=52.201696, expectedRunTime=3, priority=2]
    Process L [arrivalTime=55.175061, expectedRunTime=4, priority=4]
    Process M [arrivalTime=57.732989, expectedRunTime=4, priority=4]
    Process N [arrivalTime=61.969665, expectedRunTime=10, priority=2]
    Process O [arrivalTime=67.687689, expectedRunTime=3, priority=4]
    Process P [arrivalTime=72.471031, expectedRunTime=9, priority=2]
    Process Q [arrivalTime=73.748647, expectedRunTime=8, priority=3]
    Process R [arrivalTime=81.228399, expectedRunTime=1, priority=3]
    Process S [arrivalTime=89.671524, expectedRunTime=8, priority=4]

First Come First Served
    AAAA_BBB_____CCCCCCCCCCDDDDDDDDDEEEEFFFFFFFFFGGGGGHHHHHHHHIIIIJJJJJJJJJKKKLLLLMMMMNNNNNNNNNNOOOPPPPPPPPP
    Turnaround: 16.750 Waiting: 10.750 Response: 6.000 Throughput: 14.414

Shortest Job First
    AAAA_BBB_____CCCCCCCCCCDDDDDDDDDEEEEGGGGGFFFFFFFFFFHHHHHHHHKKKJJJJJJJJNNNNNNNNNNPPPPPPPPPRIIIIQQQQQQQQ
    Turnaround: 14.600 Waiting: 8.333 Response: 6.267 Throughput: 14.423

Shortest Remaining Time
    AAAA_BBB_____CCCCCCCCCCDDEEEEDDDDDDGGGGGGFFIIIIFFFFFFFFKKKLLLLMMMMHHOOOHHHHHJJJJJJRJJQQQQQQQQSSSSSSSS
    Turnaround: 6.235 Waiting: 5.353 Response: 5.647 Throughput: 16.667

Round Robin
    AAAA_BBB_____CCCDCDCDCDCDECDECDECFDGEFGFGHIFGHIFGHIFJKHLIMFJKNHLMFJOKNHLPQMFJONHLRPQMJONHSPQJNSPQJNSPQJNSPQNSPQNSPQNSPS
    Turnaround: 25.947 Waiting: 20.053 Response: 1.053 Throughput: 15.833

Non-Preemptive Highest Priority First
    AAAA_BBB_____CCCCCCCCCCDDDDDDDDDEEEEFFFFFFFFFFHHHHHHHHJJJJJJJJKKKNNNNNNNNNNPPPPPPPPPIIIIQQQQQQQQRGGGGG
    Turnaround: 16.600 Waiting: 10.333 Response: 6.267 Throughput: 14.286

Preemptive Highest Priority First  (RR switching between same priority processes)
    AAAA_BBB_____CCCCCCCCCCDDEDEDEDEDDDFGFGFGHHHHHHHHIIIJKJKJKJJJNJNJNNNNNNNPNPPPPPPPPQRIQQQQQQQLMOSFLSFLSFLSFOSFOSFMGSMGSM
    Turnaround: 19.316 Waiting: 20.474 Response: 8.105 Throughput: 15.833

*******(Bonus)********* Non-Preemptive Highest Priority First with Aging
    AAAA_BBB_____CCCCCCCCCCDDDDDDDDDEEEEFFFFFFFFFFHHHHHHHHHGGGGGIIIIJJJJJJJJKKKNNNNNNNNNNLLLLMMMMPPPPPPPPPOOO
    Turnaround: 18.063 Waiting: 12.063 Response: 6.000 Throughput: 14.414

*******(Bonus)********* Preemptive Highest Priority First with Aging
    AAAA_BBB_____CCCCCCCCCCDDDDDDDDDEEEEFFFFFFFFFFGGGGGHHHHHHHHIIIIJKJKJKJJJJJLLLLMMMMNNNNNNNNNNOOOPPPPPPPPP
    Turnaround: 6.313 Waiting: 10.625 Response: 11.313 Throughput: 15.385
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Average Statistics
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First Come First Served
     Turnaround time: 12.430233
     Waiting time: 6.802326
     Response time: 5.627907
     Throughput per 100 quanta: 16.074766

Shortest Job First
     Turnaround time: 11.337209
     Waiting time: 5.686047
     Response time: 5.651163
     Throughput per 100 quanta: 16.257089

Shortest Remaining Time
     Turnaround time: 6.100000
     Waiting time: 4.288889
     Response time: 4.622222
     Throughput per 100 quanta: 17.175573

Round Robin
     Turnaround time: 17.870968
     Waiting time: 12.344086
     Response time: 1.043011
     Throughput per 100 quanta: 16.878403

Non-Preemptive Highest Priority First
     Turnaround time: 12.081395
     Waiting time: 6.430233
     Response time: 5.651163
     Throughput per 100 quanta: 16.226415

Preemptive Highest Priority First  (RR switching between same priority processes)
     Turnaround time: 11.800000
     Waiting time: 9.644444
     Response time: 4.455556
     Throughput per 100 quanta: 16.666667

*******(Bonus)********* Non-Preemptive Highest Priority First with Aging
     Turnaround time: 12.616279
     Waiting time: 6.976744
     Response time: 5.639535
     Throughput per 100 quanta: 16.257089

*******(Bonus)********* Preemptive Highest Priority First with Aging
     Turnaround time: 5.895349
     Waiting time: 6.779070
     Response time: 7.511628
     Throughput per 100 quanta: 16.538462
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