

```

TYPES NEXT EVENTS for P=2: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [6.3136586 5.71149181 6.12096211]
P=2
times last jobs[P]: [ 7.07820336 11.32913743]
times next events in queue: [list([7.07820336417145])
  list([6.917846210676553, 7.047704357403415, 8.29718887105301, 9.596207977310709, 10.500116630342267])
  list([6.821278003869512, 11.329137426373174])]]
next birth times: [7.07820336 6.91784621 6.821278 ]
next death times: [6.3136586 6.54532021 6.12096211]
TYPES NEXT EVENTS for P=2: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [6.3136586 6.54532021 6.12096211]
P=2
times last jobs[P]: [ 7.07820336 11.32913743]
times next events in queue: [list([7.07820336417145])
  list([6.917846210676553, 7.047704357403415, 8.29718887105301, 9.596207977310709, 10.500116630342267])
  list([6.821278003869512, 11.329137426373174])]]
next birth times: [7.07820336 6.91784621 6.821278 ]
next death times: [6.3136586 6.54532021 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=2: [6.3136586 6.54532021 6.821278 ]
P=2
times last jobs[P]: [ 7.07820336 11.32913743]
times next events in queue: [list([7.07820336417145])
  list([6.917846210676553, 7.047704357403415, 8.29718887105301, 9.596207977310709, 10.500116630342267])
  list([6.821278003869512, 11.329137426373174])]]
next birth times: [7.07820336 6.91784621 6.821278 ]
next death times: [7.26513498 6.54532021 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=2: [7.07820336 6.54532021 6.821278 ]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282])
  list([5.071296003815405, 5.540728561126604, 6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853])]]
next birth times: [6.75874741 5.071296 6.07512073]
next death times: [8.00439693 5.15819297 4.82483254]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 5.071296 4.82483254]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282])
  list([5.071296003815405, 5.540728561126604, 6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853])]]
next birth times: [6.75874741 5.071296 6.07512073]
next death times: [8.00439693 5.15819297 5.81712678]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 5.071296 5.81712678]
P=8

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times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282])
  list([5.540728561126604, 6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 5.54072856 6.07512073]
next death times: [8.00439693 5.15819297 5.81712678]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 5.15819297 5.81712678]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282])
  list([5.540728561126604, 6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 5.54072856 6.07512073]
next death times: [8.00439693 6.25143105 5.81712678]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 5.54072856 5.81712678]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282]) list([6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 6.004278 6.07512073]
next death times: [8.00439693 6.25143105 5.81712678]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.004278 5.81712678]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282]) list([6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 6.004278 6.07512073]
next death times: [8.00439693 6.25143105 5.98560027]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.004278 5.98560027]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282]) list([6.004277995641619, 7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 6.004278 6.07512073]
next death times: [8.00439693 6.25143105 6.40740736]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.004278 6.07512073]
P=8
times last jobs[P]: [6.75874741 7.88770308]
times next events in queue: [list([6.758747414485282]) list([7.887703080484075])
  list([6.075120732967746, 7.6865000249853]))]
next birth times: [6.75874741 7.11100725 6.07512073]
next death times: [8.00439693 6.25143105 6.40740736]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.BIRTH: 0>]

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TIMES NEXT EVENTS for P=8: [6.75874741 6.25143105 6.07512073]
P=8
times last jobs[P]: [7.11100725 9.30062414]
times next events in queue: [list([6.758747414485282]) list([7.111007249516536, 7.887703080484075])
list([7.6865000249853, 9.30062413823012])]
next birth times: [6.75874741 7.11100725 7.68650002]
next death times: [8.00439693 6.25143105 6.40740736]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.25143105 6.40740736]
P=8
times last jobs[P]: [ 7.72929314 12.50909121]
times next events in queue: [list([6.758747414485282])
list([7.111007249516536, 7.729293137656785, 7.887703080484075])
list([7.6865000249853, 9.30062413823012, 12.509091209913066])]
next birth times: [6.75874741 7.11100725 7.68650002]
next death times: [8.00439693 6.4446922 6.40740736]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.4446922 6.40740736]
P=8
times last jobs[P]: [ 7.72929314 12.50909121]
times next events in queue: [list([6.758747414485282])
list([7.111007249516536, 7.729293137656785, 7.887703080484075])
list([7.6865000249853, 9.30062413823012, 12.509091209913066])]
next birth times: [6.75874741 7.11100725 7.68650002]
next death times: [8.00439693 6.4446922 7.63747466]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 6.4446922 7.63747466]
P=8
times last jobs[P]: [ 7.72929314 12.50909121]
times next events in queue: [list([6.758747414485282])
list([7.111007249516536, 7.729293137656785, 7.887703080484075])
list([7.6865000249853, 9.30062413823012, 12.509091209913066])]
next birth times: [6.75874741 7.11100725 7.68650002]
next death times: [8.00439693 7.29244407 7.63747466]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [6.75874741 7.11100725 7.63747466]
P=8
times last jobs[P]: [ 7.72929314 12.50909121]
times next events in queue: [list([]) list([7.111007249516536, 7.729293137656785, 7.887703080484075])
list([7.6865000249853, 9.30062413823012, 12.509091209913066])]
next birth times: [7.93210751 7.11100725 7.68650002]
next death times: [8.00439693 7.29244407 7.63747466]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [7.93210751 7.11100725 7.63747466]
P=8
times last jobs[P]: [ 7.93210751 12.52549805]
times next events in queue: [list([7.932107507571605])
list([7.729293137656785, 7.887703080484075, 12.52549804665188])]

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list([7.6865000249853, 9.30062413823012, 12.509091209913066]))]
next birth times: [7.93210751 7.72929314 7.68650002]
next death times: [8.00439693 7.29244407 7.63747466]
TYPES NEXT EVENTS for P=8: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=8: [7.93210751 7.29244407 7.63747466]
P=6
times last jobs[P]: [13.14564631 17.93205502]
times next events in queue: [list([6.805532394024606, 8.967228573832028, 10.068310449079364, 11.380355303272417])
list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073])
list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855]))]
next birth times: [ 6.80553239 7.43894741 15.22799759]
next death times: [5.42511251 7.776148 5.61201103]
TYPES NEXT EVENTS for P=6: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=6: [5.42511251 7.43894741 5.61201103]
P=6
times last jobs[P]: [15.16609457 18.967248 ]
times next events in queue: [list([6.805532394024606, 8.967228573832028, 10.068310449079364, 11.380355303272417])
list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073, 15.166094568961569])
list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855, 18.967247998557223]))]
next birth times: [ 6.80553239 7.43894741 15.22799759]
next death times: [5.7054696 7.776148 5.61201103]
TYPES NEXT EVENTS for P=6: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=6: [5.7054696 7.43894741 5.61201103]
P=6
times last jobs[P]: [18.94537105 22.1257709 ]
times next events in queue: [list([6.805532394024606, 8.967228573832028, 10.068310449079364, 11.380355303272417, 18.94537104616243])
list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073, 15.166094568961569])
list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855, 18.967247998557223, 22.125770902752617]))]
next birth times: [ 6.80553239 7.43894741 15.22799759]
next death times: [5.7054696 7.776148 5.71269672]
TYPES NEXT EVENTS for P=6: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=6: [5.7054696 7.43894741 5.71269672]
P=6
times last jobs[P]: [18.94537105 22.1257709 ]
times next events in queue: [list([6.805532394024606, 8.967228573832028, 10.068310449079364, 11.380355303272417, 18.94537104616243])
list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073, 15.166094568961569])
list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855, 18.967247998557223, 22.125770902752617]))]
next birth times: [ 6.80553239 7.43894741 15.22799759]
next death times: [7.21620614 7.776148 5.71269672]
TYPES NEXT EVENTS for P=6: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=6: [6.80553239 7.43894741 5.71269672]
P=6
times last jobs[P]: [18.94537105 22.1257709 ]
times next events in queue: [list([6.805532394024606, 8.967228573832028, 10.068310449079364, 11.380355303272417, 18.94537104616243])
list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073, 15.166094568961569])
list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855, 18.967247998557223, 22.125770902752617]))]
next birth times: [ 6.80553239 7.43894741 15.22799759]
next death times: [7.21620614 7.776148 7.76073031]

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TYPES NEXT EVENTS for P=6: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
 TIMES NEXT EVENTS for P=6: [6.80553239 7.43894741 7.76073031]
 P=6
 times last jobs[P]: [18.94537105 22.1257709]
 times next events in queue: [list([8.967228573832028, 10.068310449079364, 11.380355303272417, 18.94537104616243])
 list([7.438947408298224, 7.836386304535045, 13.145646310536533, 14.990925132268073, 15.166094568961569])
 list([15.227997587176146, 17.089013275881364, 17.816806540040858, 17.932055019843855, 18.967247998557223, 22.125770902752617])]
 next birth times: [8.96722857 7.43894741 15.22799759]
 next death times: [7.21620614 7.776148 7.76073031]
 TYPES NEXT EVENTS for P=6: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
 TIMES NEXT EVENTS for P=6: [7.21620614 7.43894741 7.76073031]
 P=9
 times last jobs[P]: [6.94666486 10.90742292]
 times next events in queue: [list([6.502131889706335]) list([6.771056303584327, 6.946664858139825])
 list([5.418925776821566, 10.907422919522261])]
 next birth times: [6.50213189 6.7710563 5.41892578]
 next death times: [6.02741966 7.30660806 5.84222792]
 TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.BIRTH: 0>]
 TIMES NEXT EVENTS for P=9: [6.02741966 6.7710563 5.41892578]
 P=9
 times last jobs[P]: [6.94666486 10.90742292]
 times next events in queue: [list([6.502131889706335]) list([6.771056303584327, 6.946664858139825])
 list([10.907422919522261])]
 next birth times: [6.50213189 6.7710563 10.90742292]
 next death times: [6.02741966 7.30660806 5.84222792]
 TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
 TIMES NEXT EVENTS for P=9: [6.02741966 6.7710563 5.84222792]
 P=9
 times last jobs[P]: [7.64774654 14.71689347]
 times next events in queue: [list([6.502131889706335, 7.647746541905927])
 list([6.771056303584327, 6.946664858139825, 14.716893470368369])
 list([10.907422919522261])]
 next birth times: [6.50213189 6.7710563 10.90742292]
 next death times: [6.02741966 7.30660806 7.02928577]
 TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
 TIMES NEXT EVENTS for P=9: [6.02741966 6.7710563 7.02928577]
 P=9
 times last jobs[P]: [9.60685144 16.86588334]
 times next events in queue: [list([6.502131889706335, 7.647746541905927, 9.606851444551364])
 list([6.771056303584327, 6.946664858139825, 14.716893470368369, 16.86588333889545])
 list([10.907422919522261])]
 next birth times: [6.50213189 6.7710563 10.90742292]
 next death times: [7.08283461 7.30660806 7.02928577]
 TYPES NEXT EVENTS for P=9: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
 TIMES NEXT EVENTS for P=9: [6.50213189 6.7710563 7.02928577]
 P=9
 times last jobs[P]: [10.34190145 18.07772261]
 times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312])

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list([6.771056303584327, 6.946664858139825, 14.716893470368369, 16.86588333889545, 18.07772260924645])
list([10.907422919522261]))
next birth times: [ 7.64774654  6.7710563  10.90742292]
next death times: [7.08283461 7.30660806 7.02928577]
TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.08283461 6.7710563  7.02928577]
P=9
times last jobs[P]: [10.40107022 18.08078518]
times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312])
list([6.946664858139825, 10.401070220419022, 14.716893470368369, 16.86588333889545, 18.07772260924645, 18.080785177415795])
list([10.907422919522261]))
next birth times: [ 7.64774654  6.94666486 10.90742292]
next death times: [7.08283461 7.30660806 7.02928577]
TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.08283461 6.94666486 7.02928577]
P=9
times last jobs[P]: [10.78400163 19.41536608]
times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312, 10.78400163267469])
list([10.401070220419022, 14.716893470368369, 16.86588333889545, 18.07772260924645, 18.080785177415795])
list([10.907422919522261, 19.415366082476318]))
next birth times: [ 7.64774654 10.40107022 10.90742292]
next death times: [7.08283461 7.30660806 7.02928577]
TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.08283461 7.30660806 7.02928577]
P=9
times last jobs[P]: [14.0371298 20.14900809]
times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312, 10.78400163267469])
list([10.401070220419022, 14.037129802371462, 14.716893470368369, 16.86588333889545, 18.07772260924645, 18.080785177415795])
list([10.907422919522261, 19.415366082476318, 20.149008089988133]))
next birth times: [ 7.64774654 10.40107022 10.90742292]
next death times: [7.08283461 7.30660806 8.56795313]
TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.08283461 7.30660806 8.56795313]
P=9
times last jobs[P]: [14.0371298 20.14900809]
times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312, 10.78400163267469])
list([10.401070220419022, 14.037129802371462, 14.716893470368369, 16.86588333889545, 18.07772260924645, 18.080785177415795])
list([10.907422919522261, 19.415366082476318, 20.149008089988133]))
next birth times: [ 7.64774654 10.40107022 10.90742292]
next death times: [7.09631585 7.30660806 8.56795313]
TYPES NEXT EVENTS for P=9: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.09631585 7.30660806 8.56795313]
P=9
times last jobs[P]: [14.0371298 20.14900809]
times next events in queue: [list([7.647746541905927, 9.606851444551364, 10.341901445153312, 10.78400163267469])
list([10.401070220419022, 14.037129802371462, 14.716893470368369, 16.86588333889545, 18.07772260924645, 18.080785177415795])
list([10.907422919522261, 19.415366082476318, 20.149008089988133]))
next birth times: [ 7.64774654 10.40107022 10.90742292]

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next death times: [8.28125083 7.30660806 8.56795313]
TYPES NEXT EVENTS for P=9: [<Event.BIRTH: 0> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=9: [7.64774654 7.30660806 8.56795313]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([5.988659076928643, 6.642950261072047, 6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068,
17.768787794285295])
  list([6.651782264012931, 9.494249184508929, 11.996091477632941, 12.928031995717602]))]
next birth times: [10.16089955 5.98865908 6.65178226]
next death times: [9.13965545 5.61998485 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 5.61998485 6.65178226]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([5.988659076928643, 6.642950261072047, 6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068,
17.768787794285295])
  list([6.651782264012931, 9.494249184508929, 11.996091477632941, 12.928031995717602]))]
next birth times: [10.16089955 5.98865908 6.65178226]
next death times: [9.13965545 6.08439778 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 5.98865908 6.65178226]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([6.642950261072047, 6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])
  list([6.651782264012931, 9.494249184508929, 11.996091477632941, 12.928031995717602]))]
next birth times: [10.16089955 6.64295026 6.65178226]
next death times: [9.13965545 6.08439778 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.08439778 6.65178226]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([6.642950261072047, 6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])
  list([6.651782264012931, 9.494249184508929, 11.996091477632941, 12.928031995717602]))]
next birth times: [10.16089955 6.64295026 6.65178226]
next death times: [9.13965545 6.54794798 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.54794798 6.65178226]
P=0
times last jobs[P]: [10.54941186 13.60502285]
times next events in queue: [list([6.5397175742375815])
  list([7.244809418119091, 9.231031753384284, 10.549411855576093, 12.536148460701964])
  list([9.236410412782714, 11.456855106315503, 13.605022848491023]))]
next birth times: [6.53971757 7.24480942 9.23641041]
next death times: [7.14378894 8.37983825 6.37904007]

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```

TYPES NEXT EVENTS for P=0: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=0: [6.53971757 7.24480942 6.37904007]
P=0
times last jobs[P]: [10.54941186 13.60502285]
times next events in queue: [list([6.5397175742375815])]
list([7.244809418119091, 9.231031753384284, 10.549411855576093, 12.536148460701964])
list([9.236410412782714, 11.456855106315503, 13.605022848491023]))
next birth times: [6.53971757 7.24480942 9.23641041]
next death times: [7.14378894 8.37983825 9.12342822]
TYPES NEXT EVENTS for P=0: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=0: [6.53971757 7.24480942 9.12342822]
P=0
times last jobs[P]: [10.54941186 13.60502285]
times next events in queue: [list([])]
list([7.244809418119091, 9.231031753384284, 10.549411855576093, 12.536148460701964])
list([9.236410412782714, 11.456855106315503, 13.605022848491023]))
next birth times: [nan 7.24480942 9.23641041]
next death times: [7.14378894 8.37983825 9.12342822]
TYPES NEXT EVENTS for P=0: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=0: [nan 7.24480942 9.12342822]
P=0
times last jobs[P]: [11.9432909 14.30860487]
times next events in queue: [list([])]
list([7.244809418119091, 9.231031753384284, 10.549411855576093, 11.943290896118045, 12.536148460701964])
list([9.236410412782714, 11.456855106315503, 13.605022848491023, 14.308604865630377]))
next birth times: [nan 7.24480942 9.23641041]
next death times: [7.14378894 8.37983825 9.12342822]
TYPES NEXT EVENTS for P=0: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=0: [nan 7.24480942 9.12342822]
P=0
times last jobs[P]: [13.22513813 15.04299637]
times next events in queue: [list([])]
list([7.244809418119091, 9.231031753384284, 10.549411855576093, 11.943290896118045, 12.536148460701964, 13.225138129671212, 15.042996374346512])
list([9.236410412782714, 11.456855106315503, 13.605022848491023, 14.308604865630377]))
next birth times: [14.11266397 7.24480942 9.23641041]
next death times: [7.14378894 8.37983825 9.12342822]
TYPES NEXT EVENTS for P=0: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=0: [7.14378894 7.24480942 9.12342822]
P=2
times last jobs[P]: [ 7.07820336 11.32913743]
times next events in queue: [list([7.07820336417145])]
list([6.917846210676553, 7.047704357403415, 8.29718887105301, 9.596207977310709, 10.500116630342267])
list([6.821278003869512, 11.329137426373174]))
next birth times: [7.07820336 6.91784621 6.821278 ]
next death times: [7.26513498 9.24668999 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=2: [7.07820336 6.91784621 6.821278 ]
P=2

```



```

times last jobs[P]: [ 7.07820336 11.32913743]
times next events in queue: [list([7.07820336417145])
  list([6.917846210676553, 7.047704357403415, 8.29718887105301, 9.596207977310709, 10.500116630342267])
  list([11.329137426373174])])
next birth times: [ 7.07820336 6.91784621 11.32913743]
next death times: [7.26513498 9.24668999 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [7.07820336 6.91784621 8.02033827]
P=2
times last jobs[P]: [ 7.490827 13.27540266]
times next events in queue: [list([7.07820336417145])
  list([7.047704357403415, 7.4908270012113745, 8.29718887105301, 9.596207977310709, 10.500116630342267])
  list([11.329137426373174, 13.275402658442118])])
next birth times: [ 7.07820336 7.04770436 11.32913743]
next death times: [7.26513498 9.24668999 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [7.07820336 7.04770436 8.02033827]
P=2
times last jobs[P]: [ 7.80320853 16.72600957]
times next events in queue: [list([7.07820336417145])
  list([7.4908270012113745, 7.803208528022778, 8.29718887105301, 9.596207977310709, 10.500116630342267, 16.726009574304346])
  list([11.329137426373174, 13.275402658442118])])
next birth times: [ 7.07820336 7.490827 11.32913743]
next death times: [7.26513498 9.24668999 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.BIRTH: 0> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [7.07820336 7.490827 8.02033827]
P=2
times last jobs[P]: [10.95320341 19.3252891 ]
times next events in queue: [list([10.953203414663793])
  list([7.4908270012113745, 7.803208528022778, 8.29718887105301, 9.596207977310709, 10.500116630342267, 16.726009574304346, 19.325289097566245])
  list([11.329137426373174, 13.275402658442118])])
next birth times: [10.95320341 7.490827 11.32913743]
next death times: [7.26513498 9.24668999 8.02033827]
TYPES NEXT EVENTS for P=2: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=2: [7.26513498 7.490827 8.02033827]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([6.642950261072047, 6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])
  list([6.651782264012931, 9.494249184508929, 11.996091477632941, 12.928031995717602])])
next birth times: [10.16089955 6.64295026 6.65178226]
next death times: [9.13965545 6.76584981 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.64295026 6.65178226]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
  list([6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])

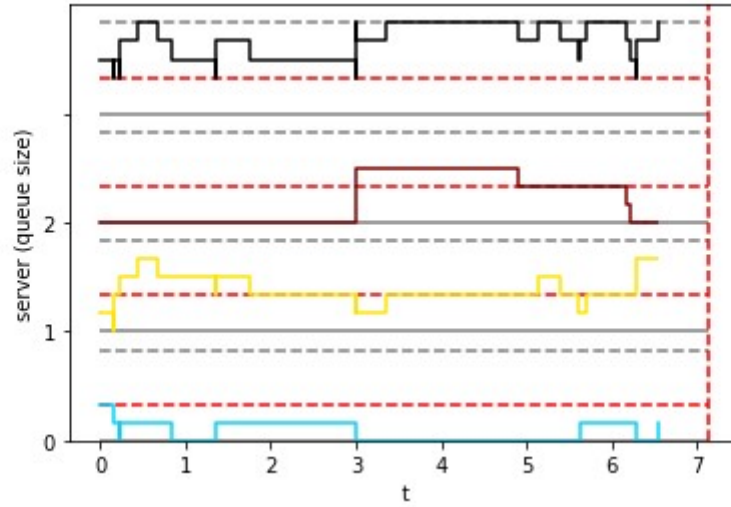
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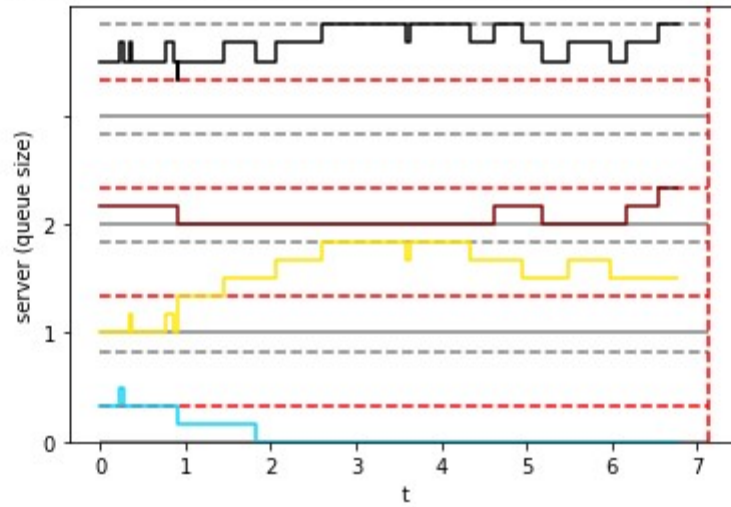
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next birth times: [10.16089955 6.7898169 6.65178226]
next death times: [9.13965545 6.76584981 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.BIRTH: 0>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.76584981 6.65178226]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
list([6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])]
list([9.494249184508929, 11.996091477632941, 12.928031995717602]))
next birth times: [10.16089955 6.7898169 9.49424918]
next death times: [9.13965545 6.76584981 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.76584981 8.76979765]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
list([6.789816902286029, 7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])]
list([9.494249184508929, 11.996091477632941, 12.928031995717602]))
next birth times: [10.16089955 6.7898169 9.49424918]
next death times: [9.13965545 8.46864029 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=5: [9.13965545 6.7898169 8.76979765]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
list([7.0850073423748885, 8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])]
list([9.494249184508929, 11.996091477632941, 12.928031995717602]))
next birth times: [10.16089955 7.08500734 9.49424918]
next death times: [9.13965545 8.46864029 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.BIRTH: 0> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=5: [9.13965545 7.08500734 8.76979765]
P=5
times last jobs[P]: [10.16089955 17.76878779]
times next events in queue: [list([10.160899551441883])
list([8.486823885472004, 13.318365907082756, 14.166356185765068, 17.768787794285295])]
list([9.494249184508929, 11.996091477632941, 12.928031995717602]))
next birth times: [10.16089955 8.48682389 9.49424918]
next death times: [9.13965545 8.46864029 8.76979765]
TYPES NEXT EVENTS for P=5: [<Event.DEATH: 1> <Event.DEATH: 1> <Event.DEATH: 1>]
TIMES NEXT EVENTS for P=5: [9.13965545 8.46864029 8.76979765]

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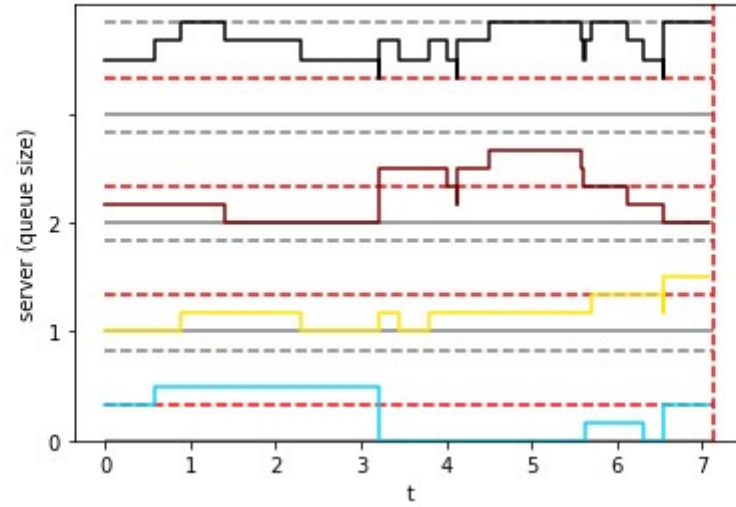
Particle 0: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



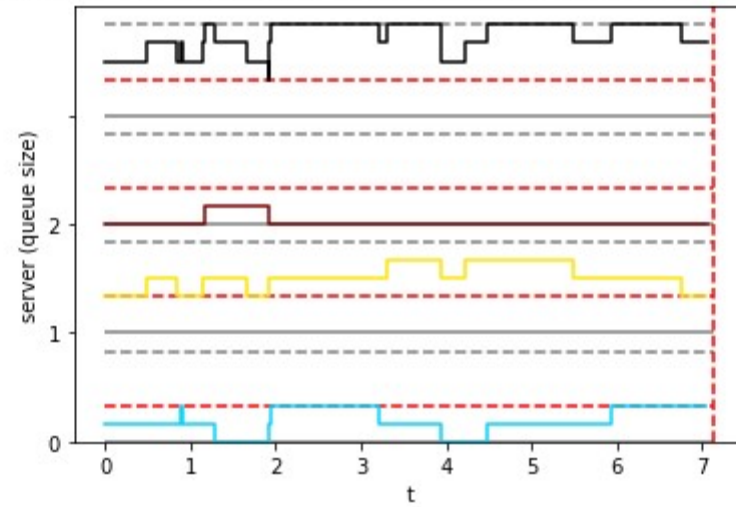
Particle 1: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



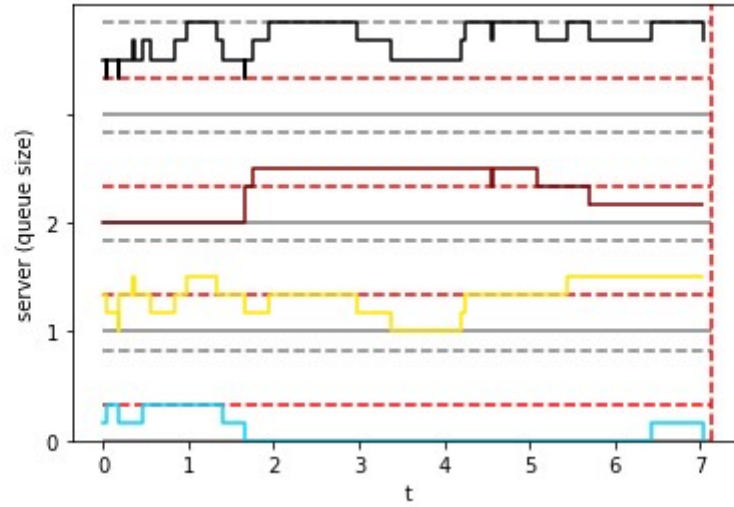
Particle 2: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



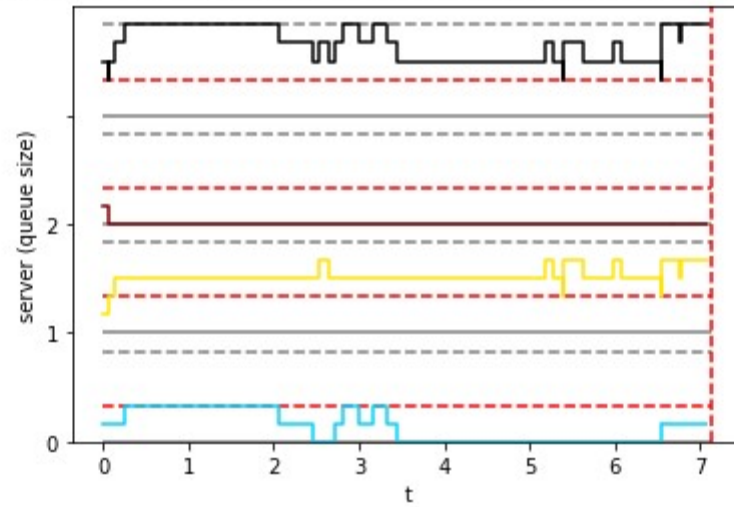
Particle 3: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



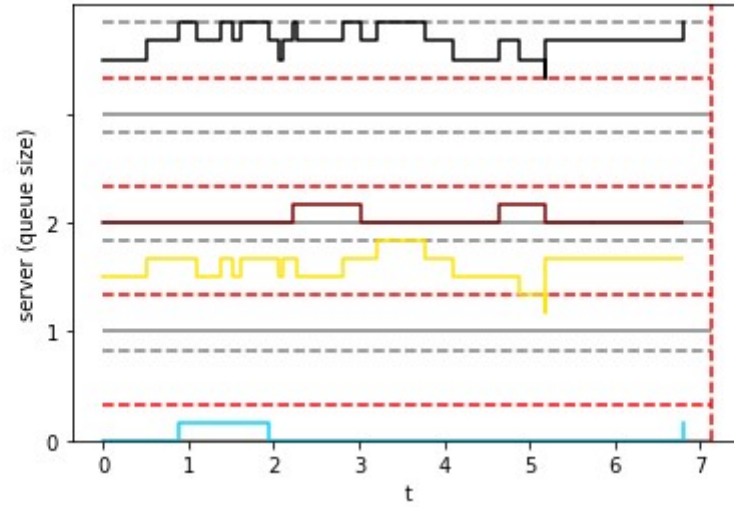
Particle 4: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



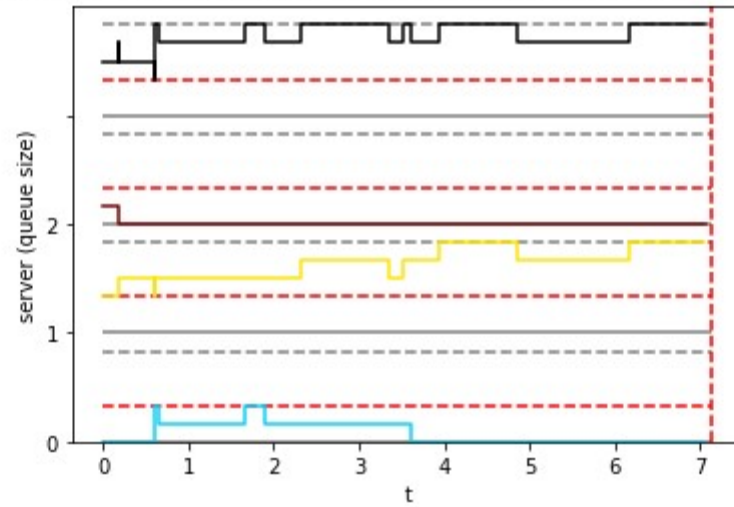
Particle 5: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



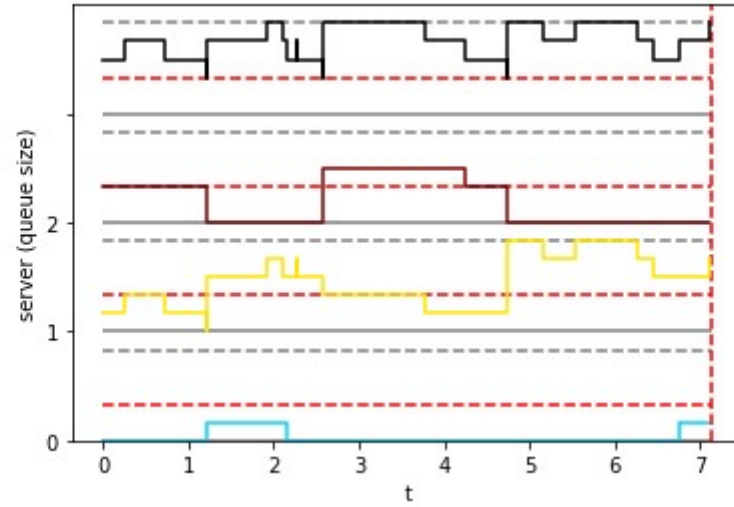
Particle 6: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



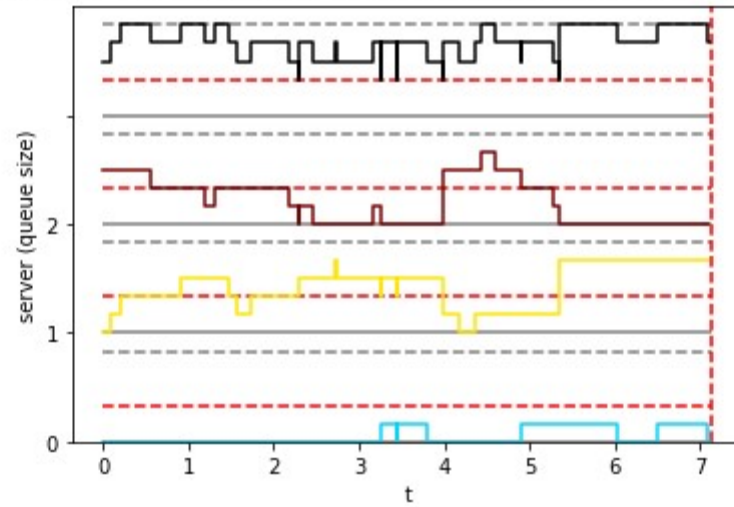
Particle 7: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



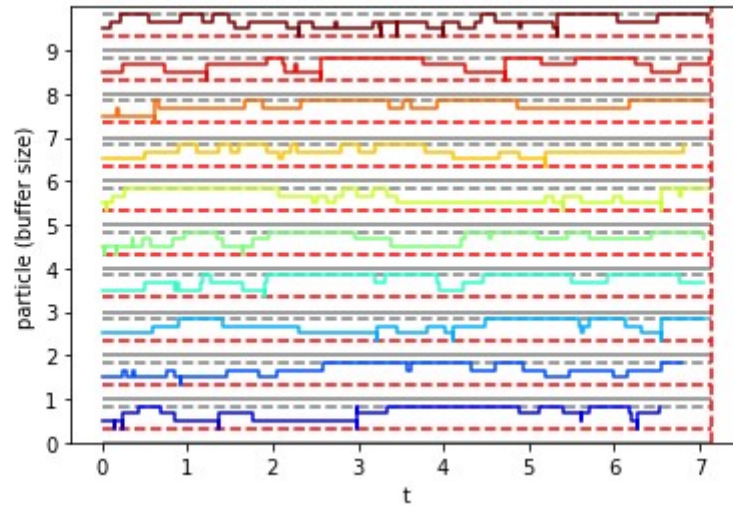
Particle 8: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



Particle 9: $K=5$, $\text{rates}(B)=[0.4, 0.75, 0.35]$, $\text{rates}(D)=[1.0, 1.0, 1.0]$, $\text{activation}=3$, $\text{reactivate}=\text{True}$, $\text{finalize}=\text{ABS}$, $\#\text{servers}=3$, $\text{maxtime}=7.1$, $\text{seed}=1717$



K=5, rates(B)=[0.4, 0.75, 0.35], rates(D)=[1.0, 1.0, 1.0], activation=3, reactivate=True, finalize=ABS, N=10, maxtime=7.1, seed=1717



Finalizing and identifying measurement times...

Test #2: execution time: 0.1 min

P(K) true: 11.987462%

P(K) by MC: 10.713005%

P(K) estimated by FV: 7.321676%

In [2]: