

```

1) replicas  $\mapsto$   $\langle$ 
  [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  0,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ], [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  0,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ], [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "shut down",
    viewNumber  $\mapsto$  0,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ], [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  0,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ]
   $\rangle$ 

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2) replicas  $\mapsto$   $\langle$ 
  [
    logs  $\mapsto$   $\langle [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1] \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  0,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  1
  ], [

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    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ]
]
>
3) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,

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    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ]
}
4) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",

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    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ]
}

5) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ]
]
}

6) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,

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    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ]
]
>
7) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",

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    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ]
}
8) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "shut down",
    viewNumber ↦ 0,
    epochNumber ↦ 0,

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    opNumber ↦ 0
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}

9) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,

```

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    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}

10) replicas ↦ ⟨
  [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1]
    ⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,

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    opNumber ↦ 2
  ]
}
11) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1]
    ⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 0
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1]
    ⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]

```

```

    ]
  }
12) replicas  $\mapsto$   $\langle$ 
  [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  1]
     $\rangle$ ,
    commitNumber  $\mapsto$  1,
    config  $\mapsto$   $\langle 1, 3, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  1,
    epochNumber  $\mapsto$  1,
    opNumber  $\mapsto$  2
  ], [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "view-change",
    viewNumber  $\mapsto$  2,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ], [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  1]
     $\rangle$ ,
    commitNumber  $\mapsto$  2,
    config  $\mapsto$   $\langle 1, 3, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  1,
    epochNumber  $\mapsto$  1,
    opNumber  $\mapsto$  2
  ], [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  2]
     $\rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  2,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  2
  ]

```

\rangle
 13) $replicas \mapsto \langle$
 $\quad [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 1]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 1,$
 $\quad \quad config \mapsto \langle 1, 3, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 1,$
 $\quad \quad epochNumber \mapsto 1,$
 $\quad \quad opNumber \mapsto 2$
 $\quad], [$
 $\quad \quad logs \mapsto \langle \rangle,$
 $\quad \quad commitNumber \mapsto 0,$
 $\quad \quad config \mapsto \langle 1, 2, 4 \rangle,$
 $\quad \quad status \mapsto \text{"view-change"},$
 $\quad \quad viewNumber \mapsto 2,$
 $\quad \quad epochNumber \mapsto 0,$
 $\quad \quad opNumber \mapsto 0$
 $\quad], [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 1],$
 $\quad \quad \quad [config \mapsto \langle 1 \rangle, epochNumber \mapsto 2]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 2,$
 $\quad \quad config \mapsto \langle 1, 3, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 1,$
 $\quad \quad epochNumber \mapsto 1,$
 $\quad \quad opNumber \mapsto 3$
 $\quad], [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 2]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 0,$
 $\quad \quad config \mapsto \langle 1, 2, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 2,$
 $\quad \quad epochNumber \mapsto 0,$
 $\quad \quad opNumber \mapsto 2$
 $\quad]$

\rangle
 14) $replicas \mapsto \langle$
 $\quad [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 1],$
 $\quad \quad \quad [config \mapsto \langle 1 \rangle, epochNumber \mapsto 2]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 2,$
 $\quad \quad config \mapsto \langle 1, 3, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 1,$
 $\quad \quad epochNumber \mapsto 1,$
 $\quad \quad opNumber \mapsto 3$
 $\quad], [$
 $\quad \quad logs \mapsto \langle \rangle,$
 $\quad \quad commitNumber \mapsto 0,$
 $\quad \quad config \mapsto \langle 1, 2, 4 \rangle,$
 $\quad \quad status \mapsto \text{"view-change"},$
 $\quad \quad viewNumber \mapsto 2,$
 $\quad \quad epochNumber \mapsto 0,$
 $\quad \quad opNumber \mapsto 0$
 $\quad], [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 1],$
 $\quad \quad \quad [config \mapsto \langle 1 \rangle, epochNumber \mapsto 2]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 2,$
 $\quad \quad config \mapsto \langle 1, 3, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 1,$
 $\quad \quad epochNumber \mapsto 1,$
 $\quad \quad opNumber \mapsto 3$
 $\quad], [$
 $\quad \quad logs \mapsto \langle$
 $\quad \quad \quad [config \mapsto \langle 1, 3, 4 \rangle, epochNumber \mapsto 1],$
 $\quad \quad \quad [viewNumber \mapsto 2]$
 $\quad \quad \rangle,$
 $\quad \quad commitNumber \mapsto 0,$
 $\quad \quad config \mapsto \langle 1, 2, 4 \rangle,$
 $\quad \quad status \mapsto \text{"normal"},$
 $\quad \quad viewNumber \mapsto 2,$
 $\quad \quad epochNumber \mapsto 0,$
 $\quad \quad opNumber \mapsto 2$

```

    ]
  }
15) replicas  $\mapsto$   $\langle$ 
  [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  1],
      [config  $\mapsto$   $\langle 1 \rangle$ , epochNumber  $\mapsto$  2]
     $\rangle$ ,
    commitNumber  $\mapsto$  2,
    config  $\mapsto$   $\langle 1, 3, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  1,
    epochNumber  $\mapsto$  1,
    opNumber  $\mapsto$  3
  ], [
    logs  $\mapsto$   $\langle \rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "view-change",
    viewNumber  $\mapsto$  2,
    epochNumber  $\mapsto$  0,
    opNumber  $\mapsto$  0
  ], [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  1],
      [config  $\mapsto$   $\langle 1 \rangle$ , epochNumber  $\mapsto$  2]
     $\rangle$ ,
    commitNumber  $\mapsto$  3,
    config  $\mapsto$   $\langle 1 \rangle$ ,
    status  $\mapsto$  "shut down",
    viewNumber  $\mapsto$  1,
    epochNumber  $\mapsto$  2,
    opNumber  $\mapsto$  3
  ], [
    logs  $\mapsto$   $\langle$ 
      [config  $\mapsto$   $\langle 1, 3, 4 \rangle$ , epochNumber  $\mapsto$  1],
      [viewNumber  $\mapsto$  2]
     $\rangle$ ,
    commitNumber  $\mapsto$  0,
    config  $\mapsto$   $\langle 1, 2, 4 \rangle$ ,
    status  $\mapsto$  "normal",
    viewNumber  $\mapsto$  2,
    epochNumber  $\mapsto$  0,

```

```

    opNumber ↦ 2
  ]
}
16) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 2,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨[config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1]⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 1
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 3,
    config ↦ ⟨1⟩,
    status ↦ "shut down",
    viewNumber ↦ 1,
    epochNumber ↦ 2,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,

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    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}
17) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 2,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 3,
    config ↦ ⟨1⟩,
    status ↦ "shut down",
    viewNumber ↦ 1,
    epochNumber ↦ 2,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
  ],

```

```

    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}

18) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 2,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 1,
    epochNumber ↦ 1,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 3,
    config ↦ ⟨1⟩,
    status ↦ "shut down",
    viewNumber ↦ 1,
    epochNumber ↦ 2,
    opNumber ↦ 3
  ], [

```



```

    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 3,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}

19) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 2,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 3,
    epochNumber ↦ 1,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,
    commitNumber ↦ 3,
    config ↦ ⟨1⟩,
    status ↦ "shut down",

```

```

viewNumber ↦ 1,
epochNumber ↦ 2,
opNumber ↦ 3
], [
  logs ↦ ⟨
    [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
    [viewNumber ↦ 2]
  ⟩,
  commitNumber ↦ 1,
  config ↦ ⟨1, 2, 4⟩,
  status ↦ "view-change",
  viewNumber ↦ 3,
  epochNumber ↦ 0,
  opNumber ↦ 2
]
⟩
20) replicas ↦ ⟨
  [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 2,
    config ↦ ⟨1, 3, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 3,
    epochNumber ↦ 1,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 0,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "normal",
    viewNumber ↦ 2,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 1],
      [config ↦ ⟨1⟩, epochNumber ↦ 2]
    ⟩,

```

```

    commitNumber ↦ 3,
    config ↦ ⟨1⟩,
    status ↦ "shut down",
    viewNumber ↦ 1,
    epochNumber ↦ 2,
    opNumber ↦ 3
  ], [
    logs ↦ ⟨
      [config ↦ ⟨1, 3, 4⟩, epochNumber ↦ 1],
      [viewNumber ↦ 2]
    ⟩,
    commitNumber ↦ 1,
    config ↦ ⟨1, 2, 4⟩,
    status ↦ "view-change",
    viewNumber ↦ 3,
    epochNumber ↦ 0,
    opNumber ↦ 2
  ]
}

```