Append only - Item storage
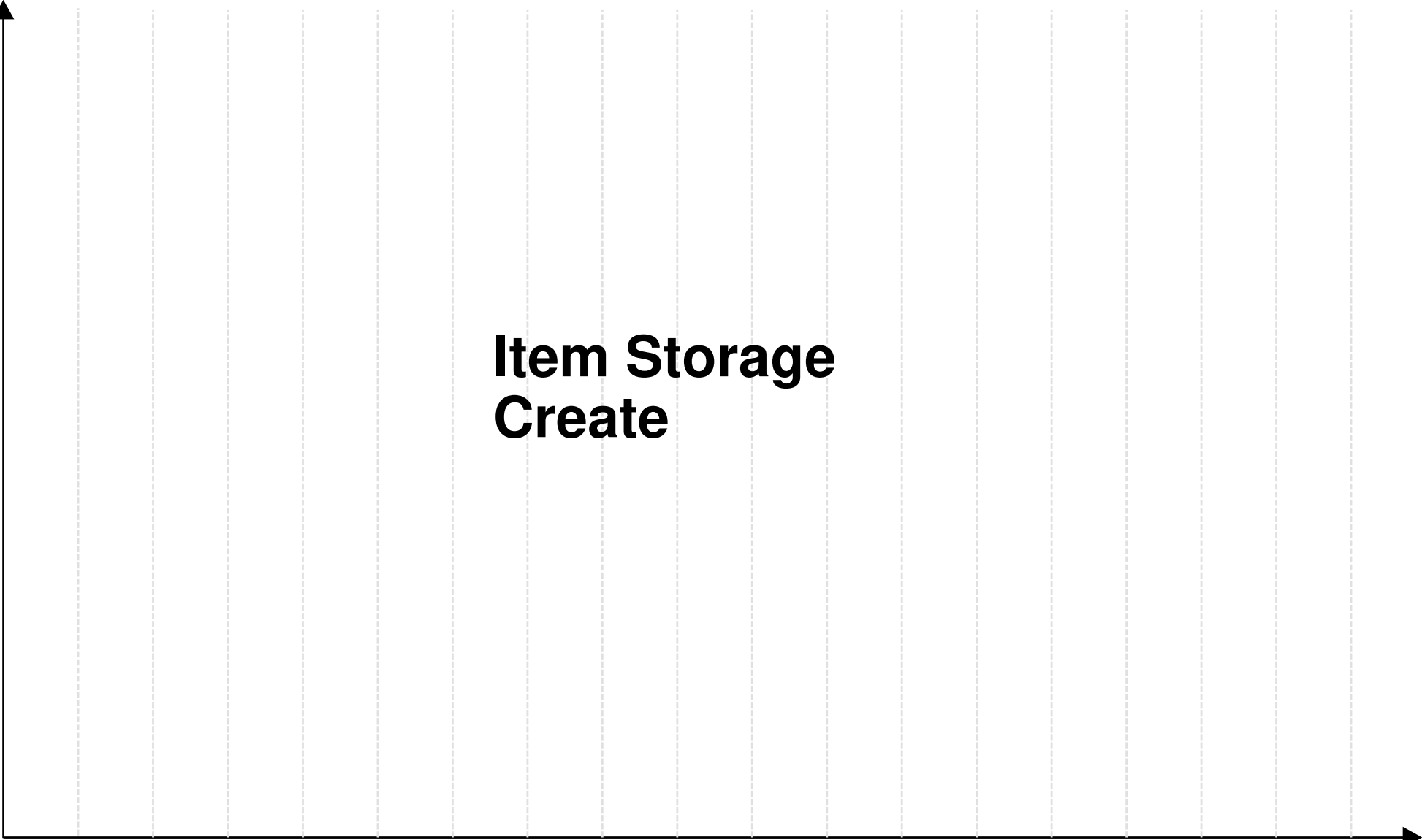
Time

Item Storage Create
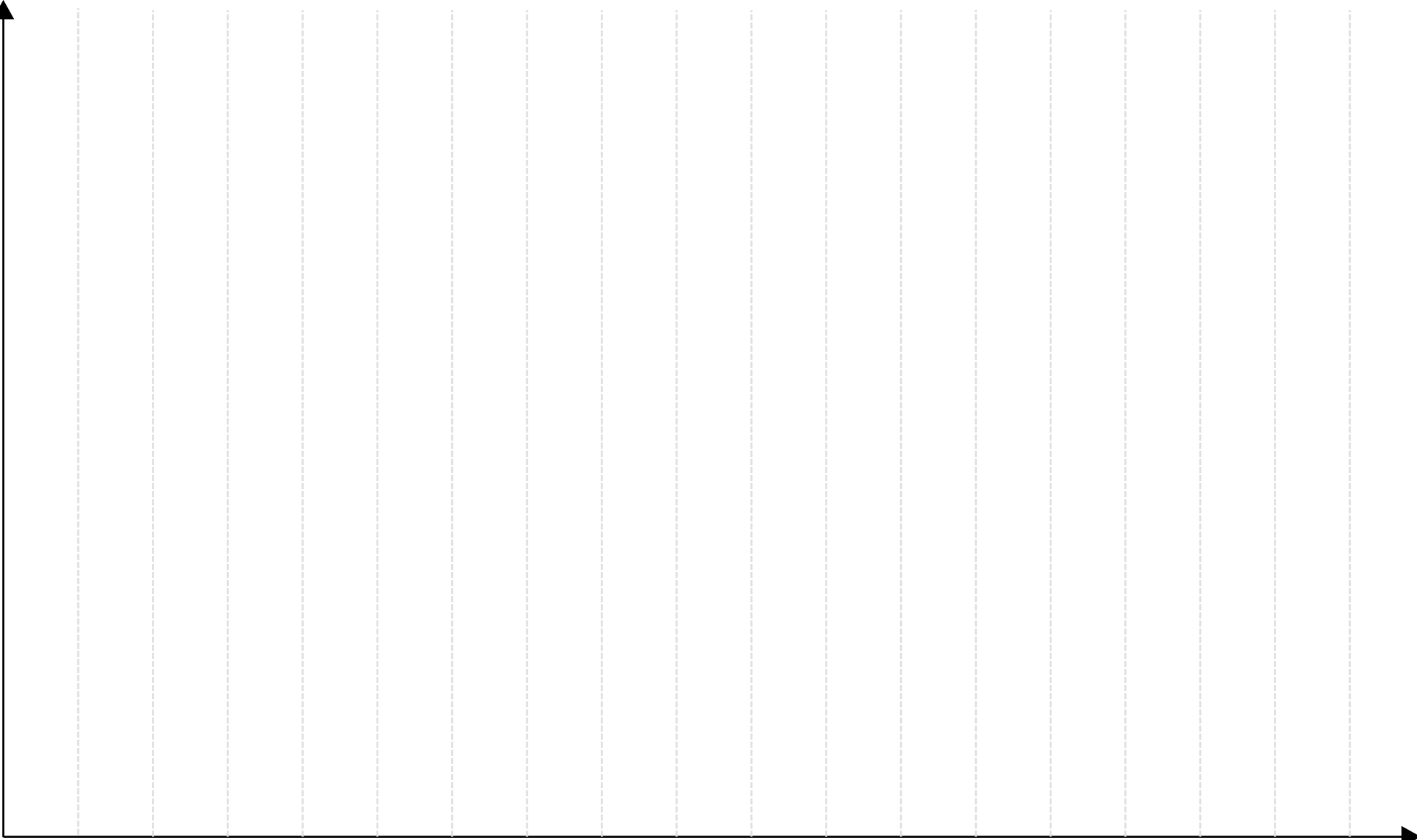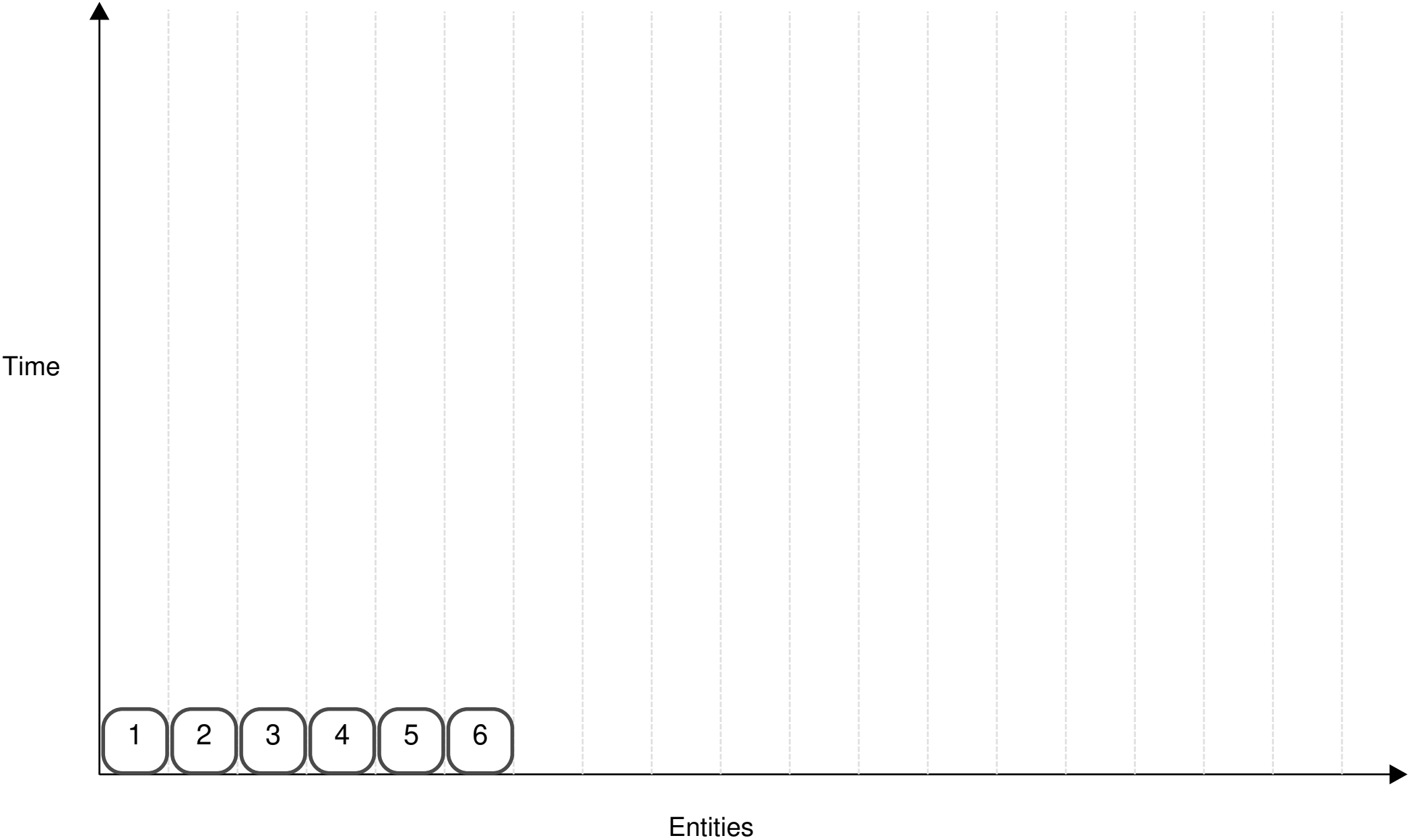
Entities

Append only - Start

Time

Entities

Append only - Creating items

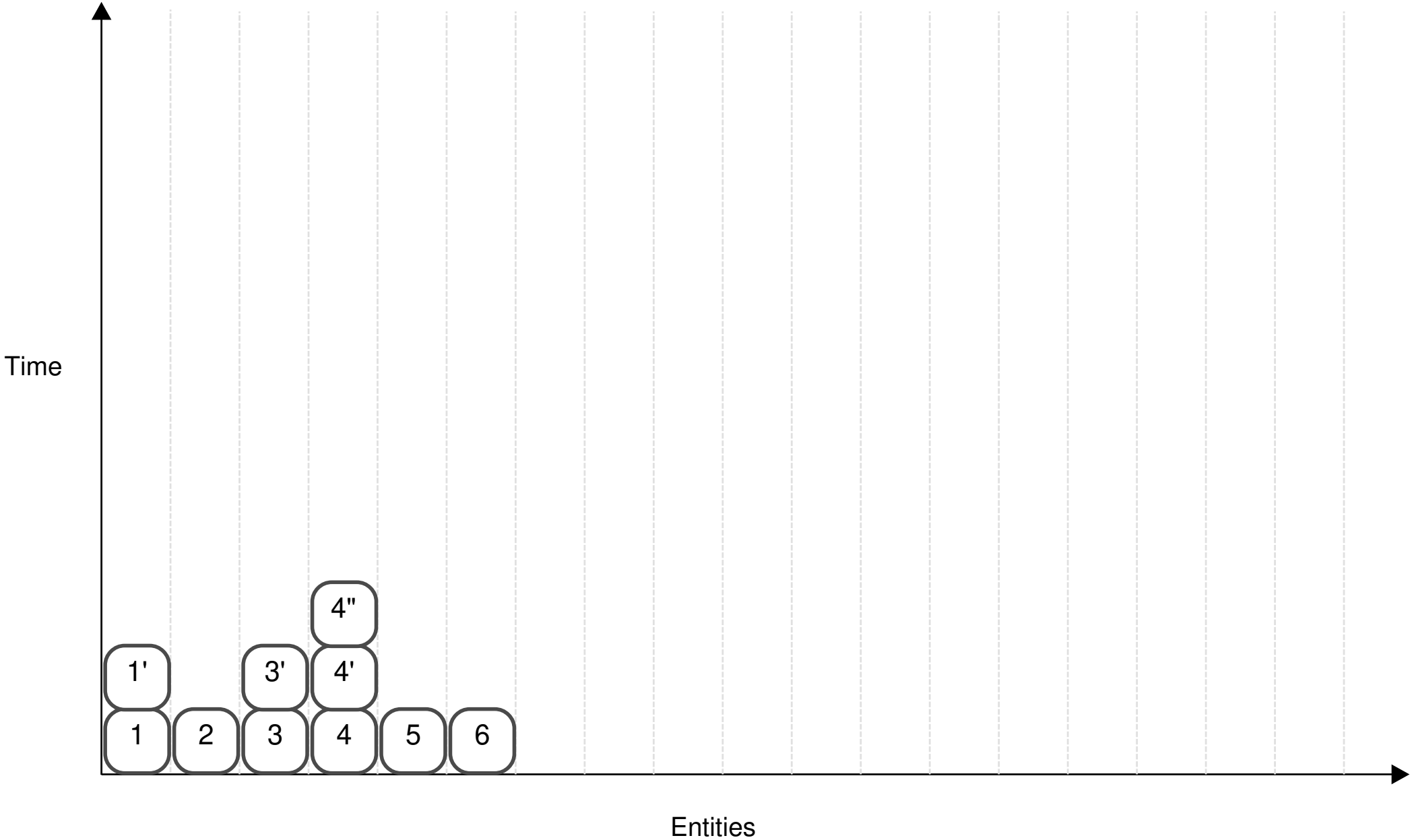Time

1 2 3 4 5 6

Entities

Append only - Item storage (Update)

Time

Item Storage
Update

Entities
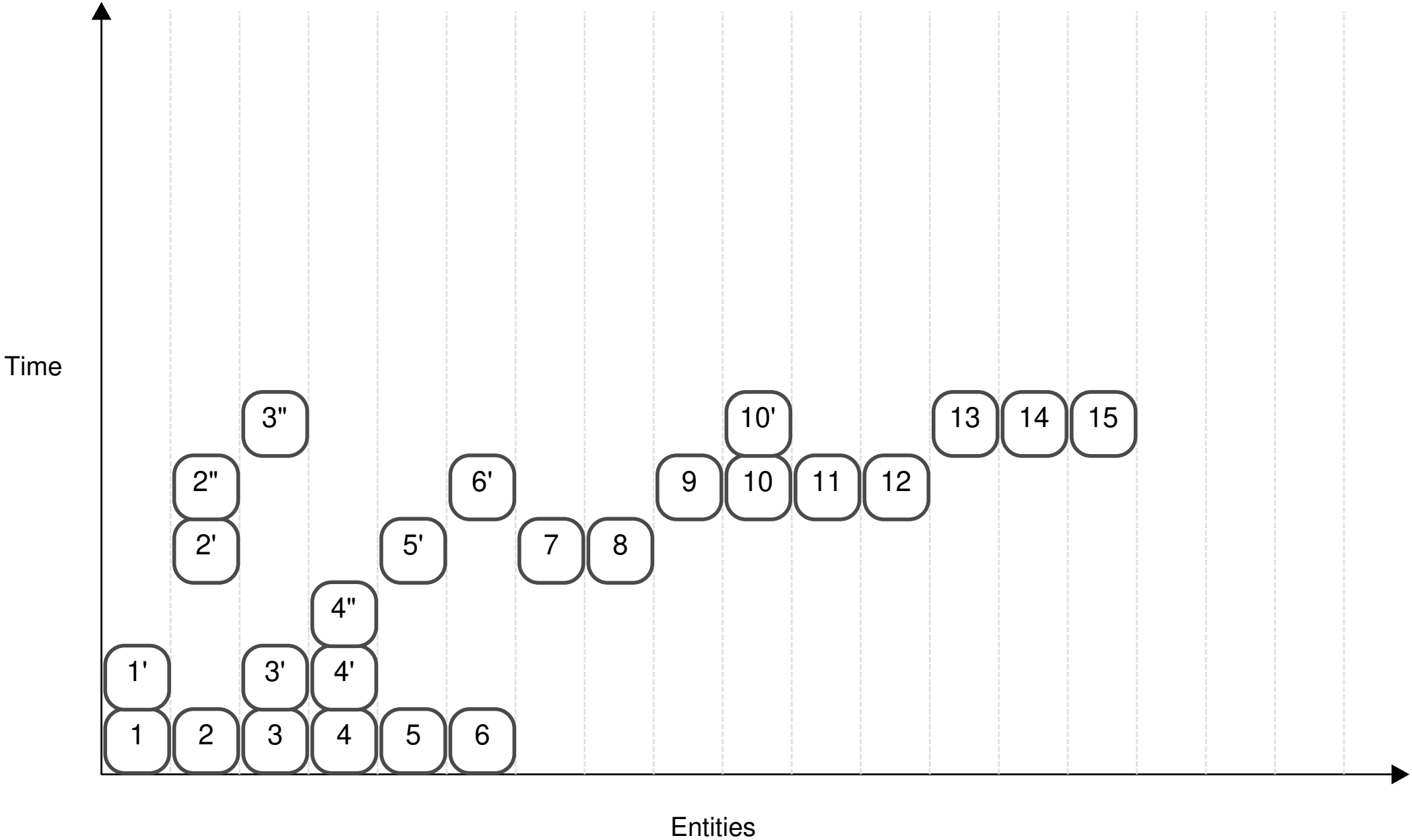
Append only - Editing items

Time

4"

1'   3' 4'

1   2   3   4   5   6

Entities

Append only - Living 1

Time

2'   5'   7   8

4"

1'   3'   4'

1   2   3   4   5   6
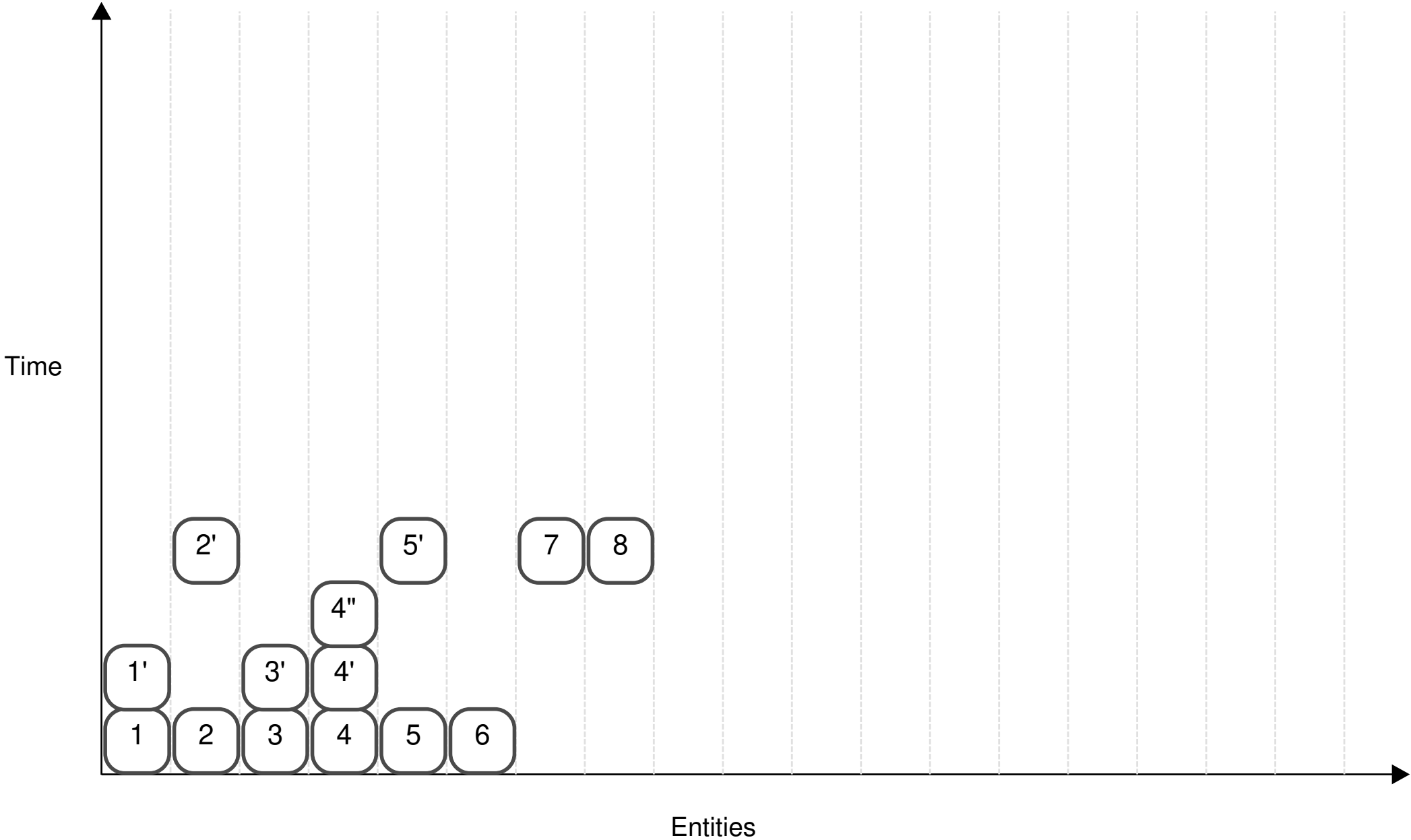
Entities

Append only - Living 2
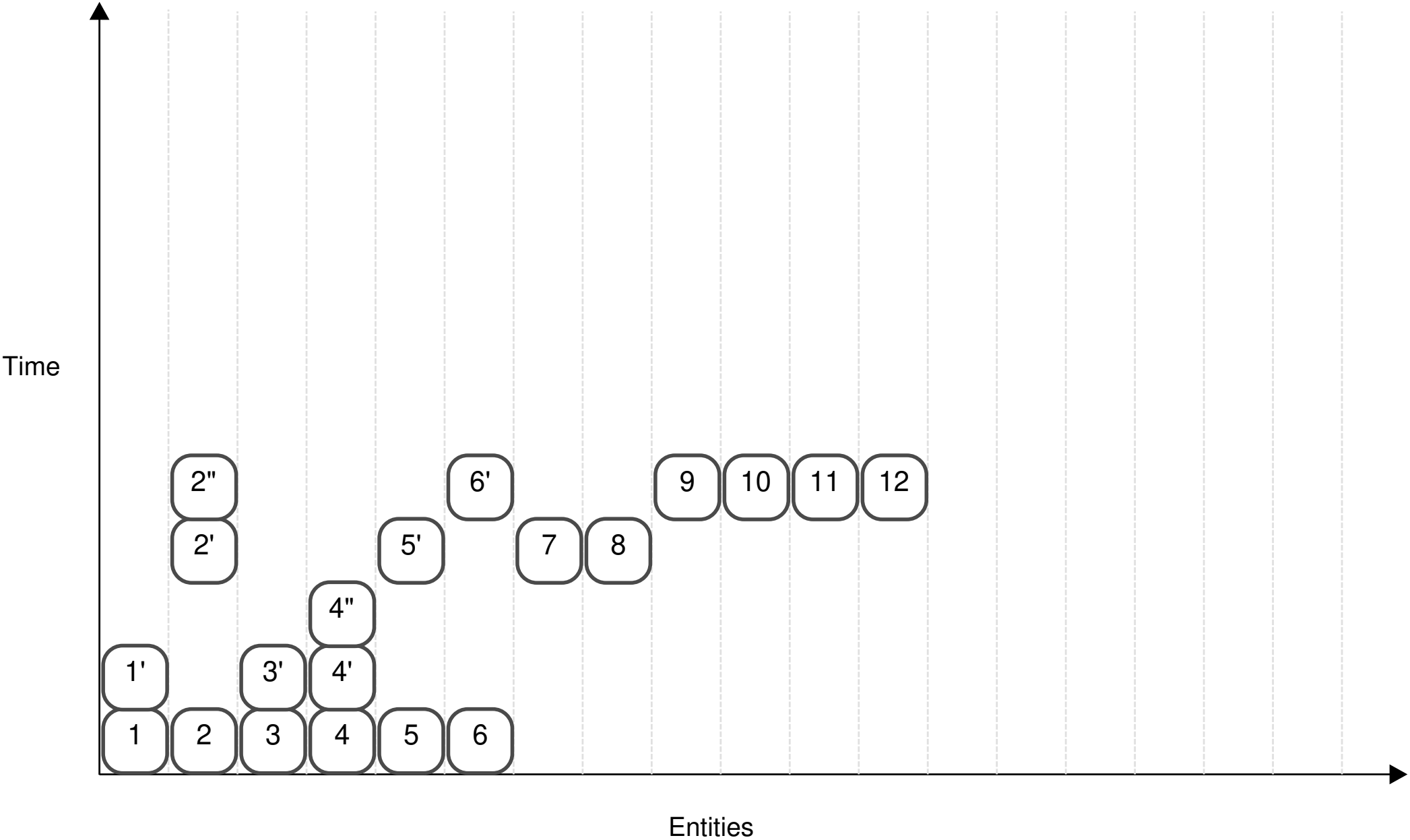
Time

Entities

Append only - Living 3

Append only - Living 4

Time

Entities

Item Storage
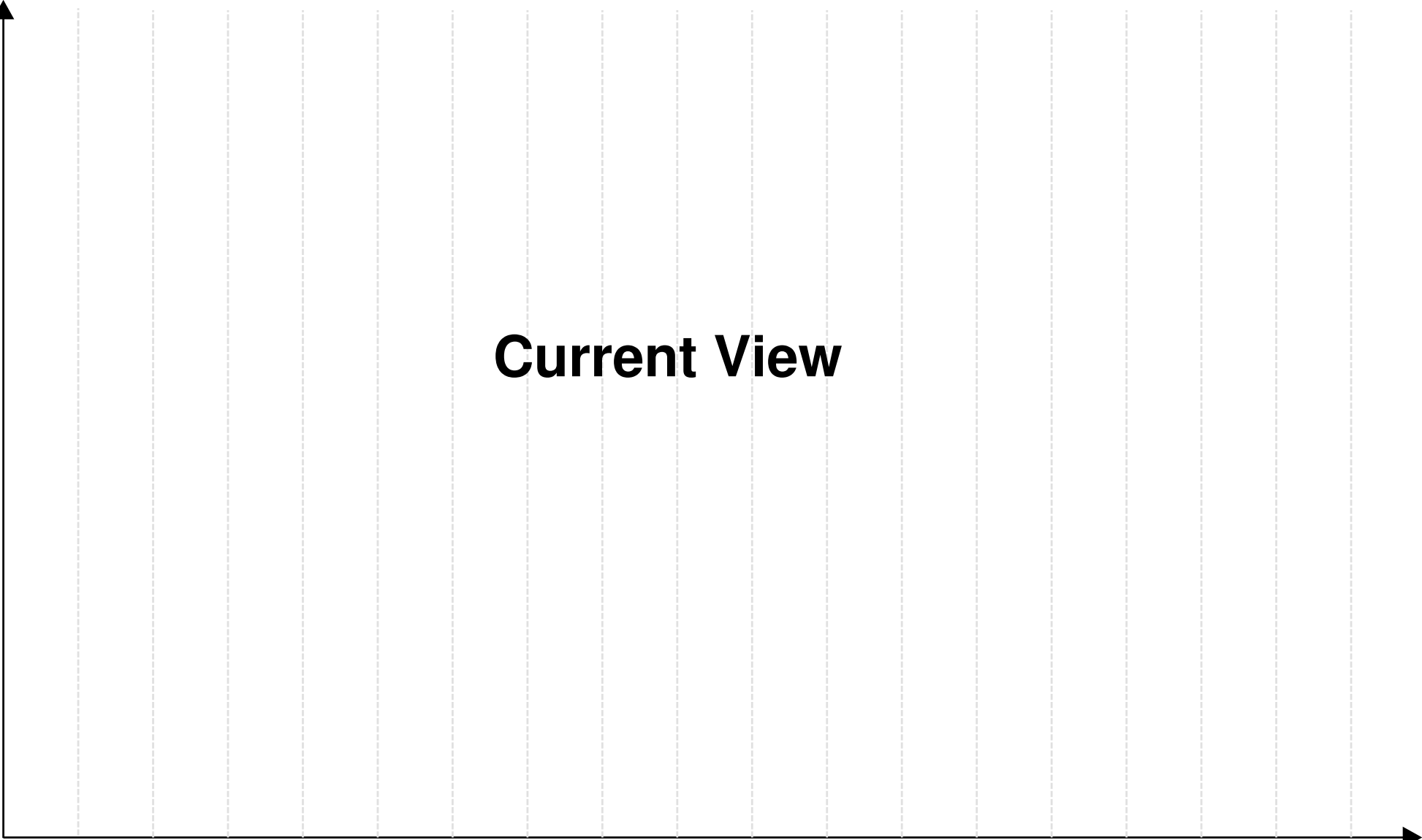# Soft Delete
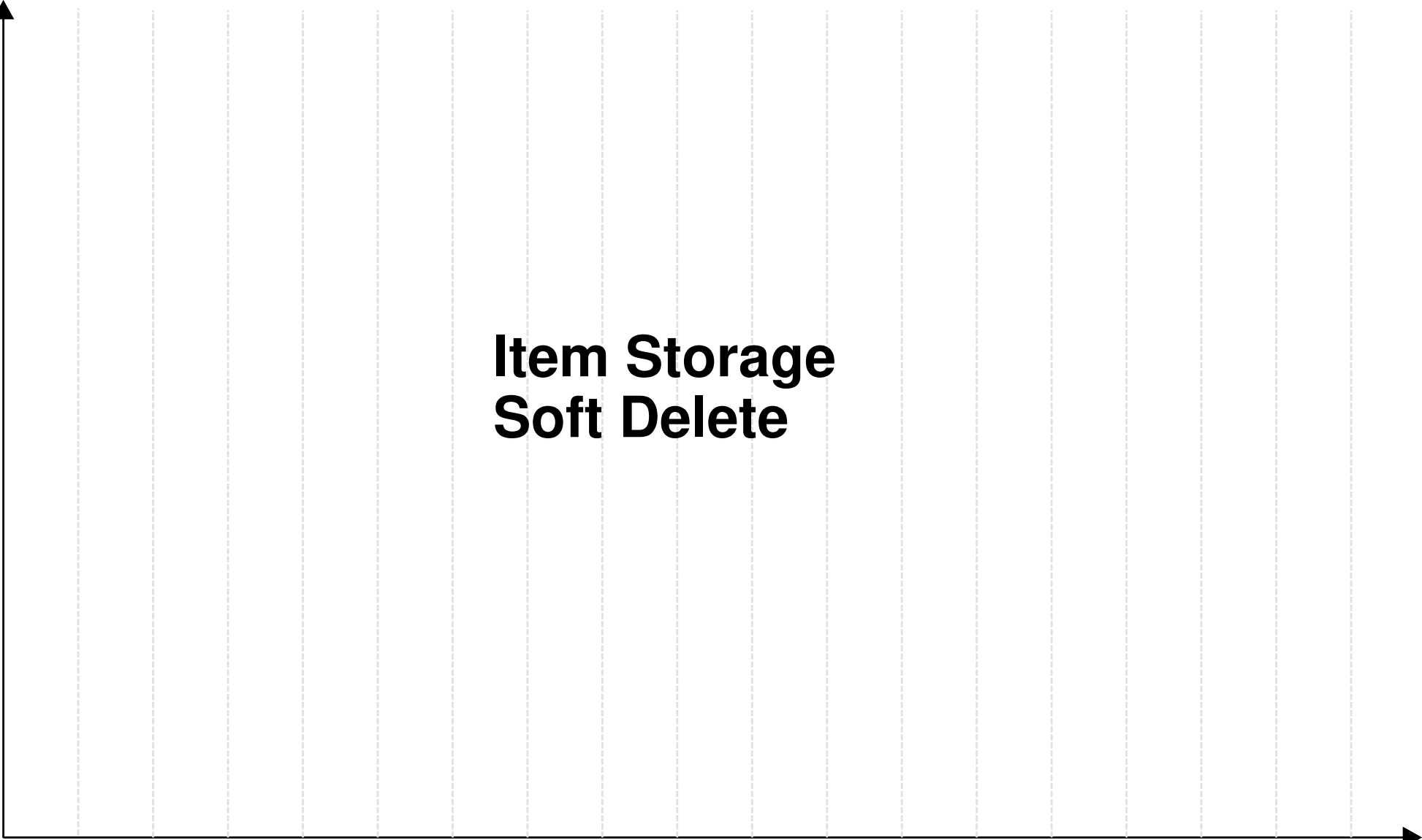
Append only - Deleting

Append only - Current view

Time

Current View

Entities
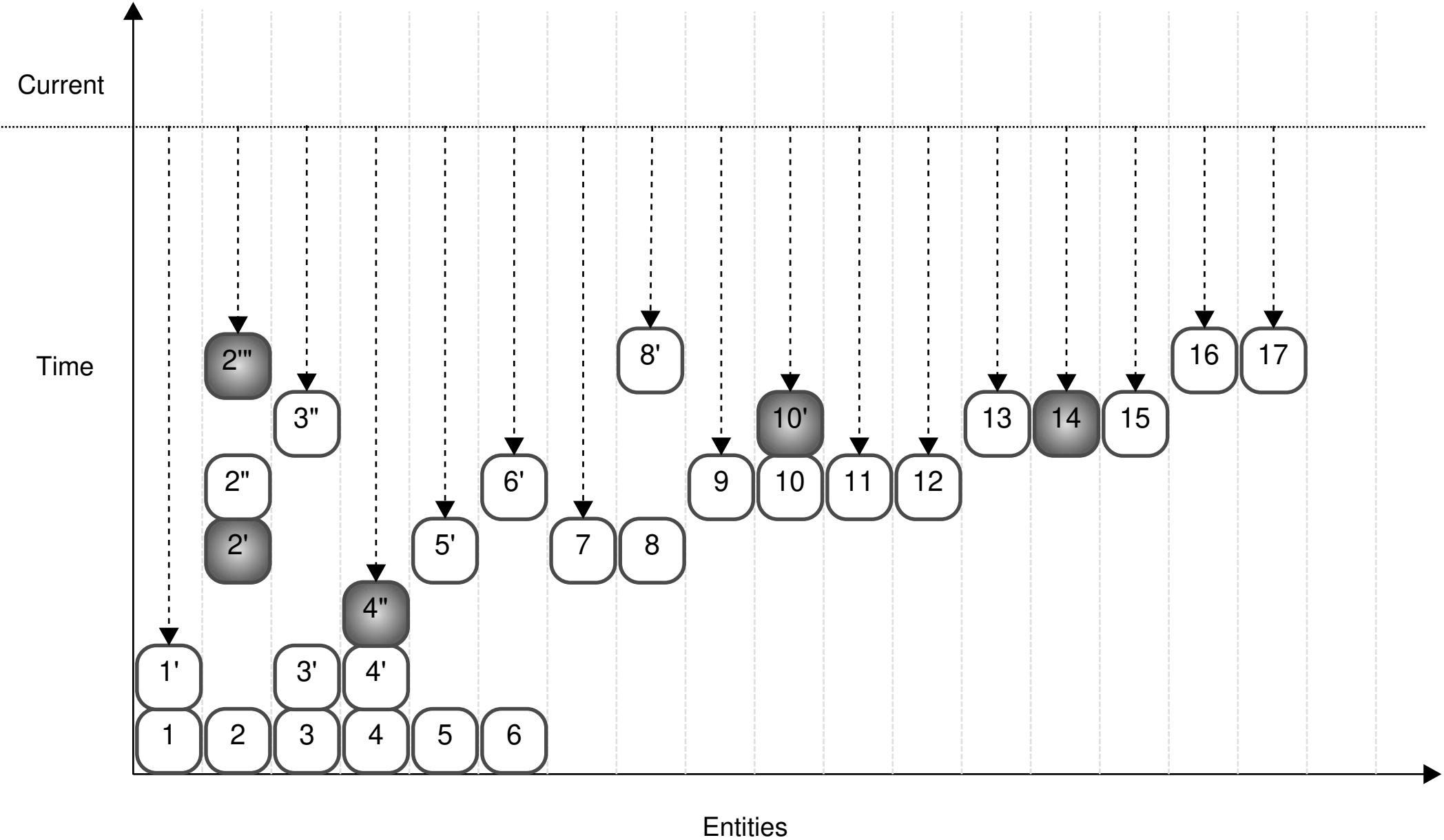
Append only - Current view explained
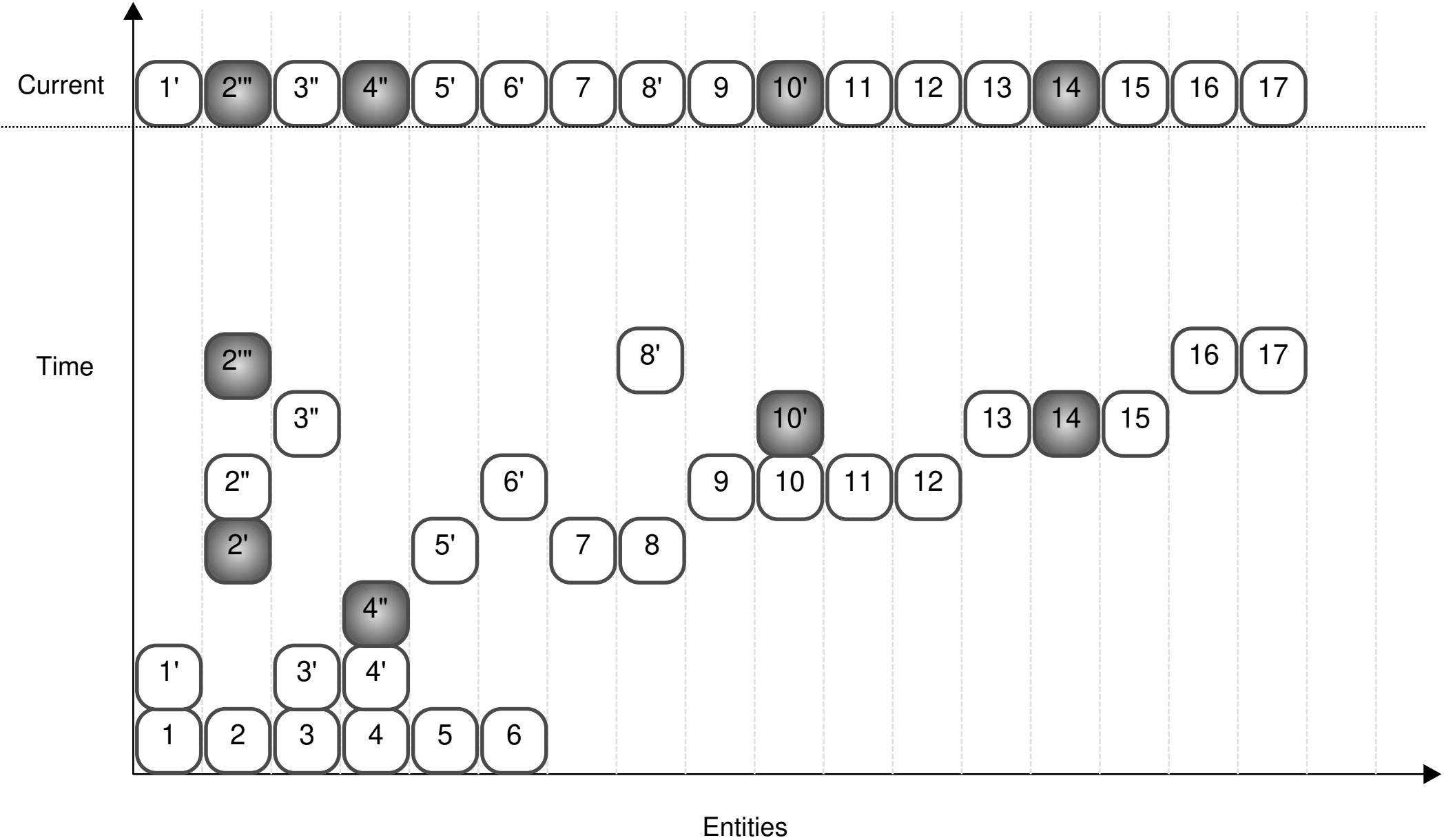
Current

Time

Entities

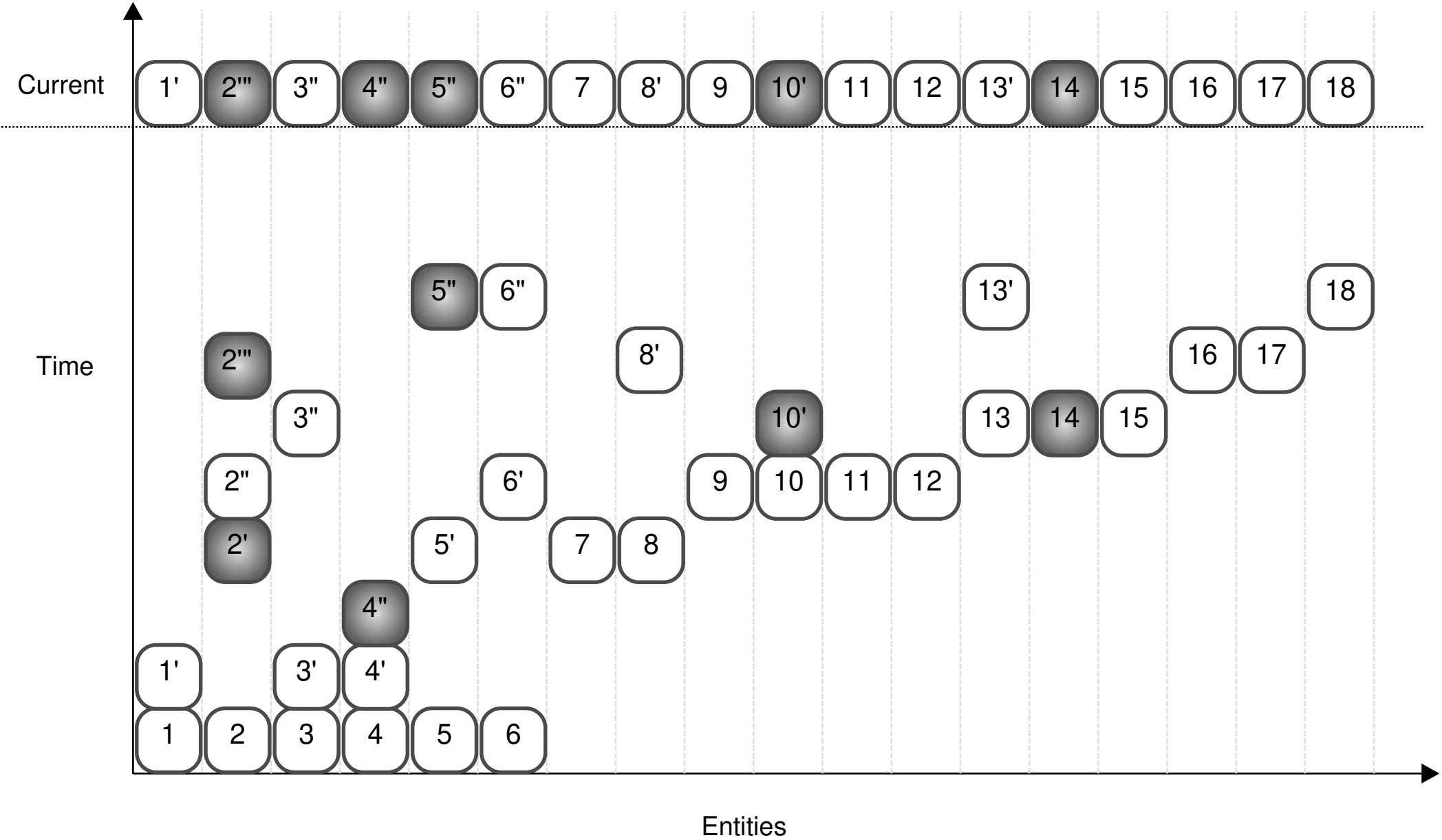**Append only - Current view explained 2**
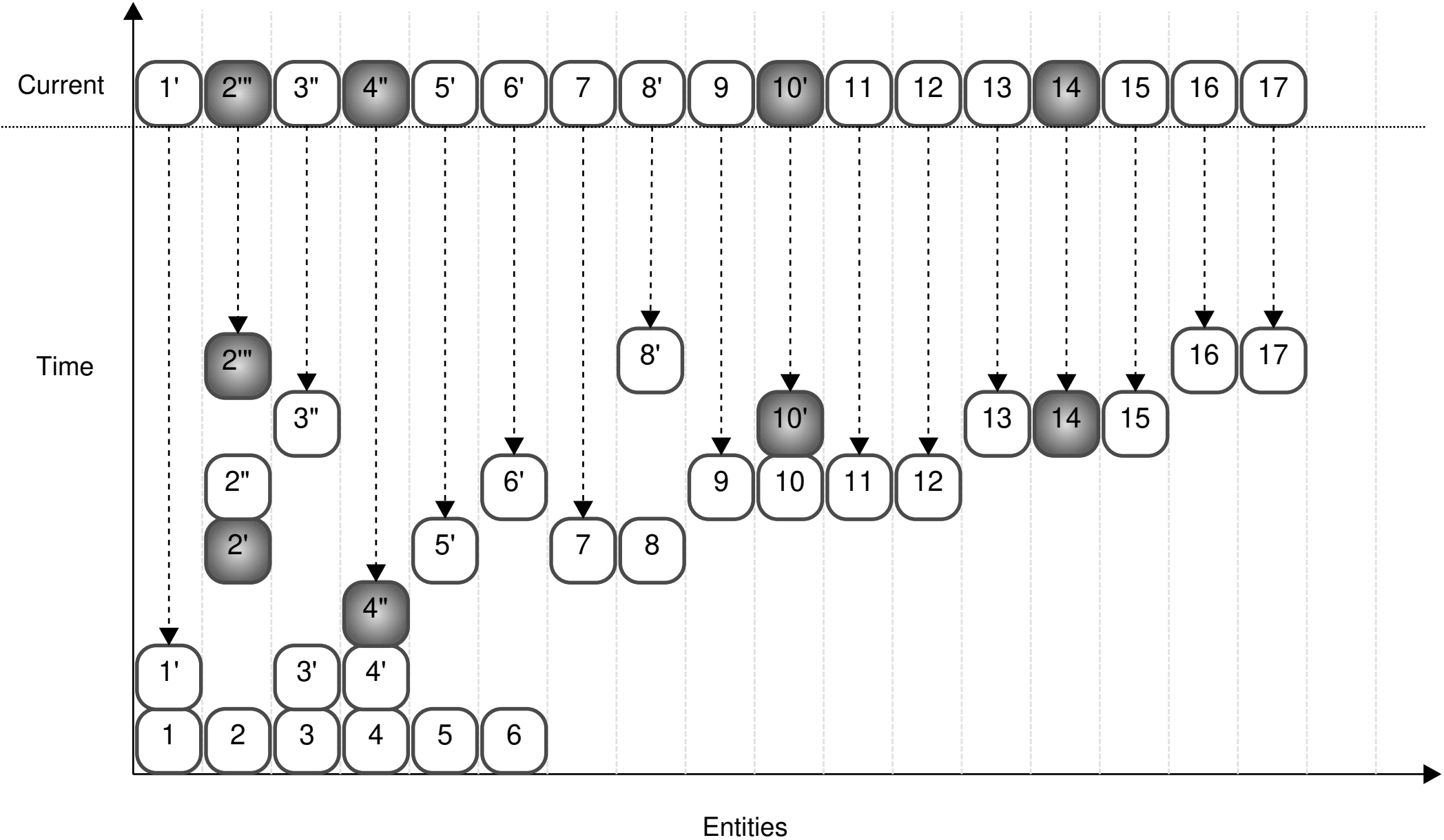
Append only - Current view
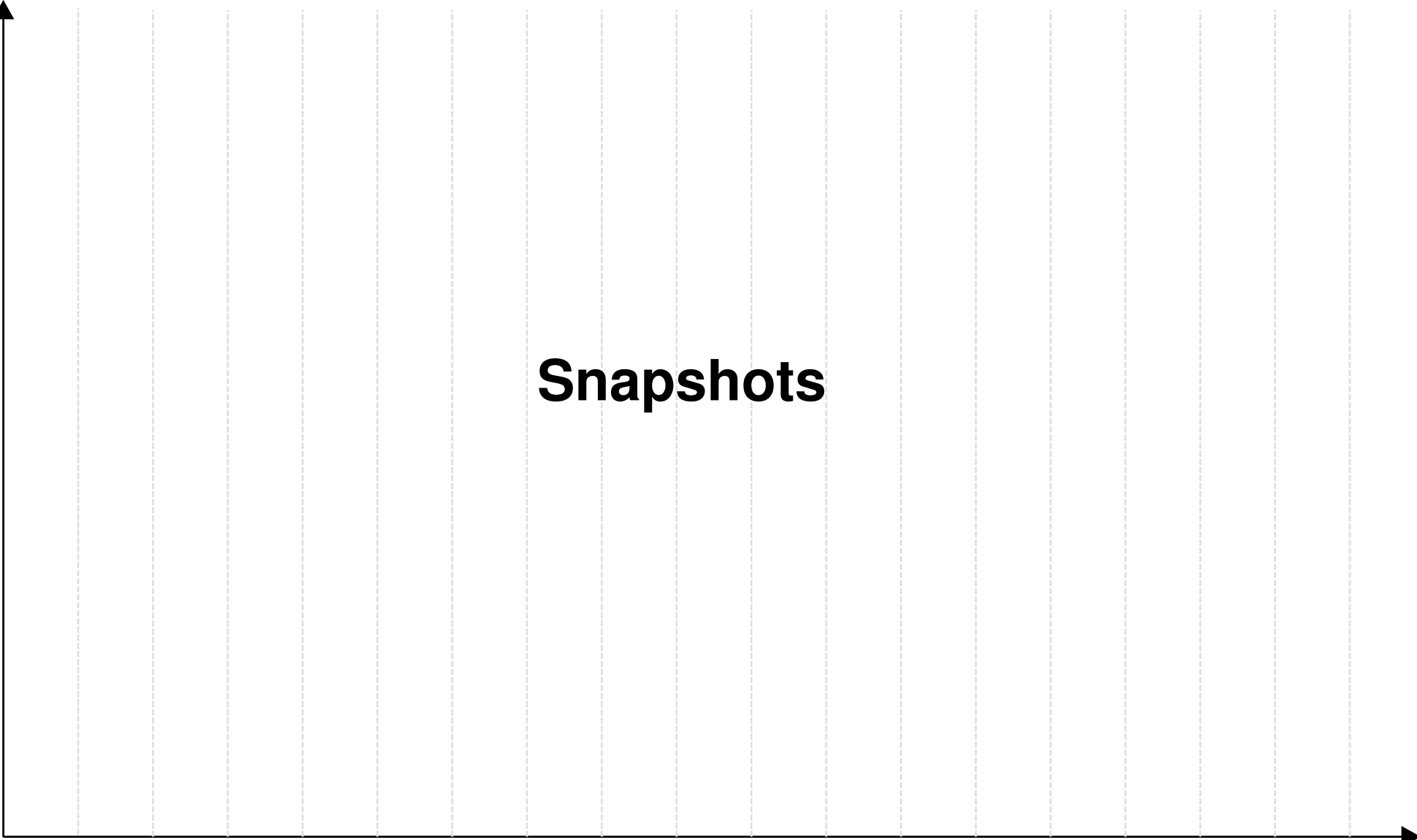
Append only - Current view with changes

Append only - Snapshot

Time

Snapshots

Entities

Append only - Snapshot

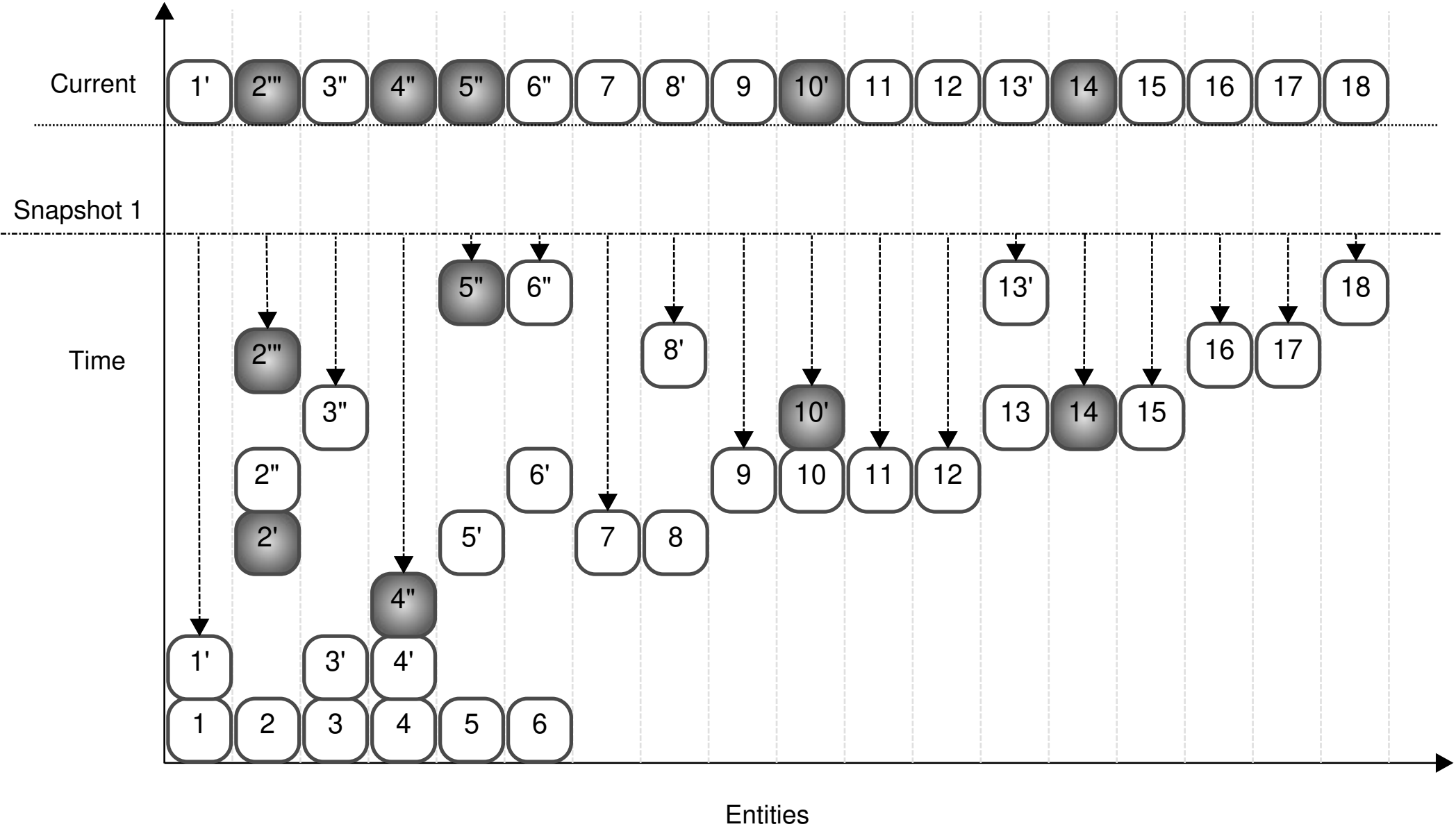Current: 1' 2''' 3" 4" 5" 6" 7 8' 9 10' 11 12 13' 14 15 16 17 18

Snapshot 1

Time

Entities

Append only - Snapshot 2
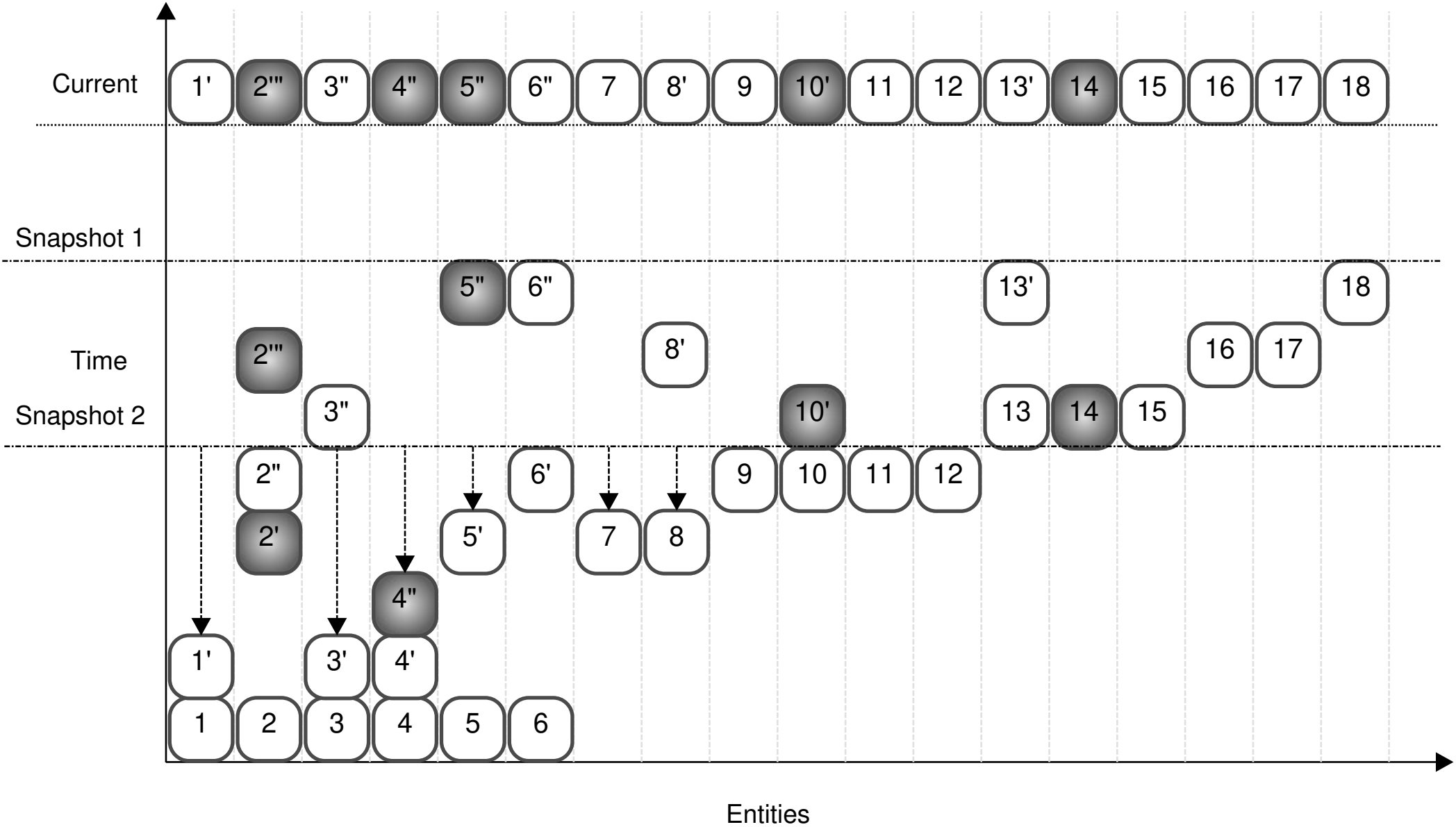
Append only - Snapshot 2 as current

Append only - Archiving

Current

Snapshot 1

Archiving

Time

Snapshot 2

Entities

Append only - Archiving

Current | 1' | 2''' | 3''' | 4'' | 5'' | 6'' | 7' | 8' | 9 | 10' | 11 | 12 | 13' | 14 | 15' | 16' | 17 | 18

Snapshot 1 | 3''' | 7' | 15' | 16'

Snapshot 2 | 5'' | 6'' | 13' | 18

Time | 2''' | 8' | 16 | 17

Snapshot 2 | 3'' | 10' | 13 | 14 | 15

2'' | 6' | 9 | 10 | 11 | 12

2' | 5' | 7 | 8

4''

1' | 3' | 4'

1 | 2 | 3 | 4 | 5 | 6

Entities
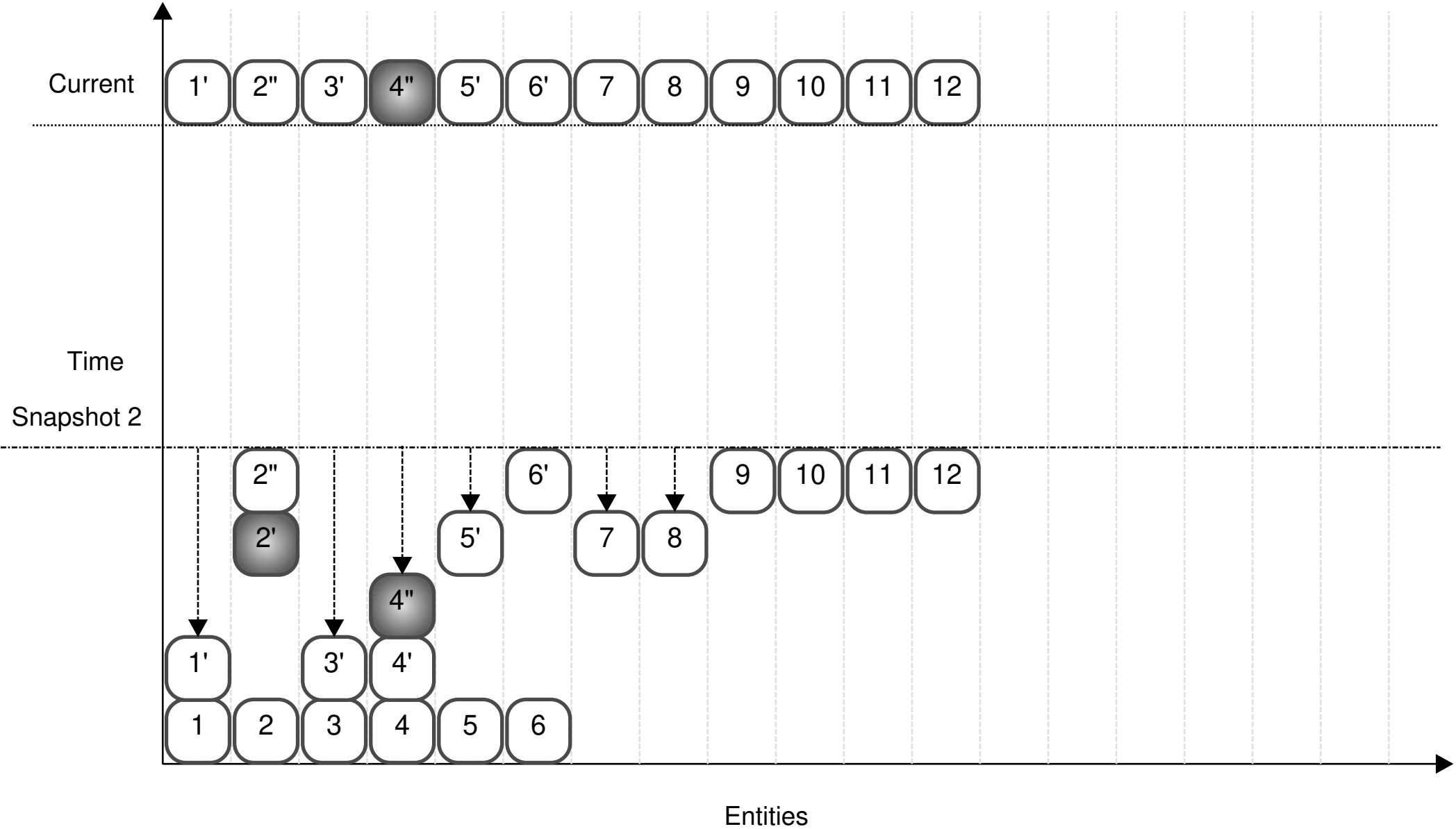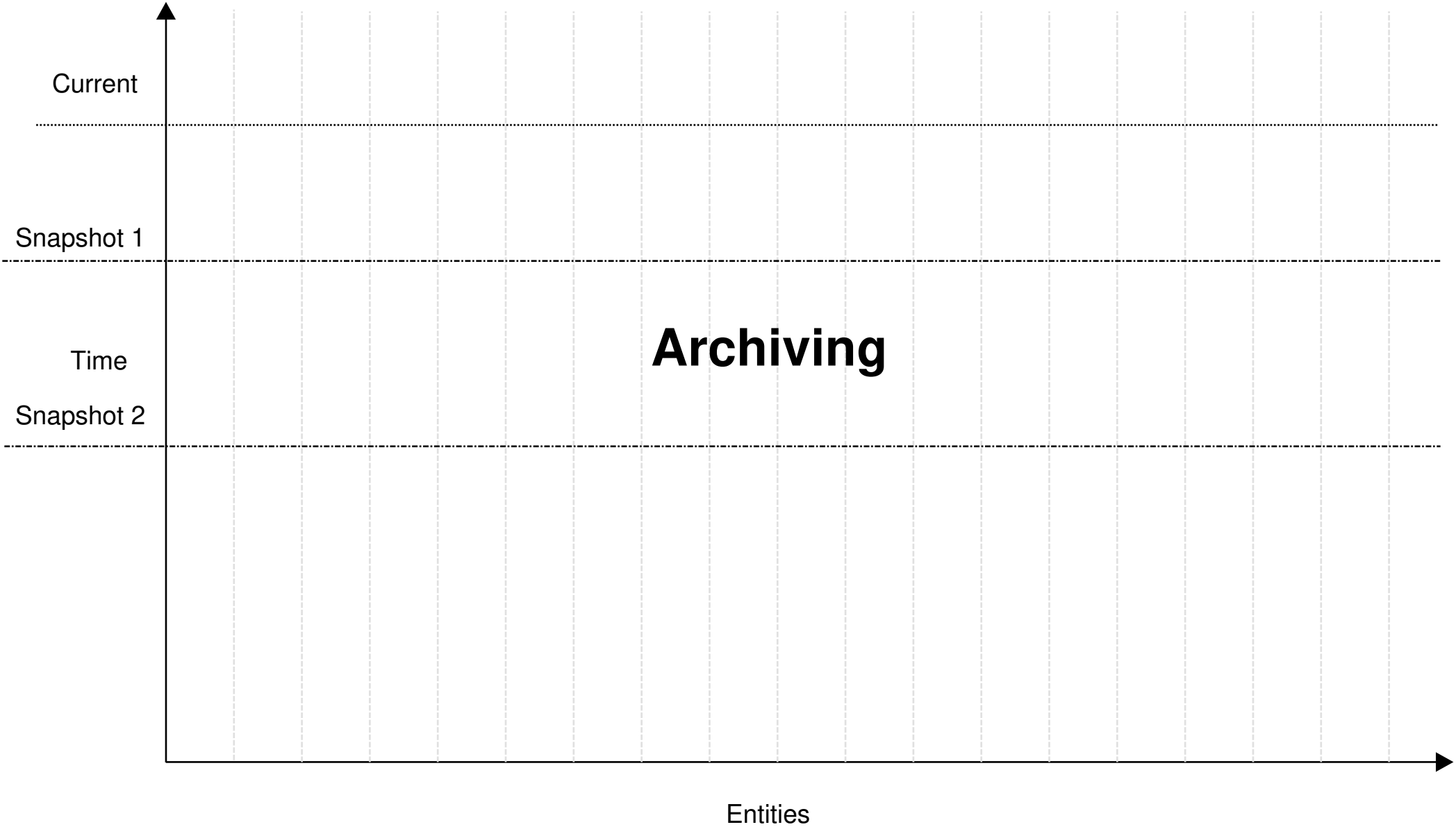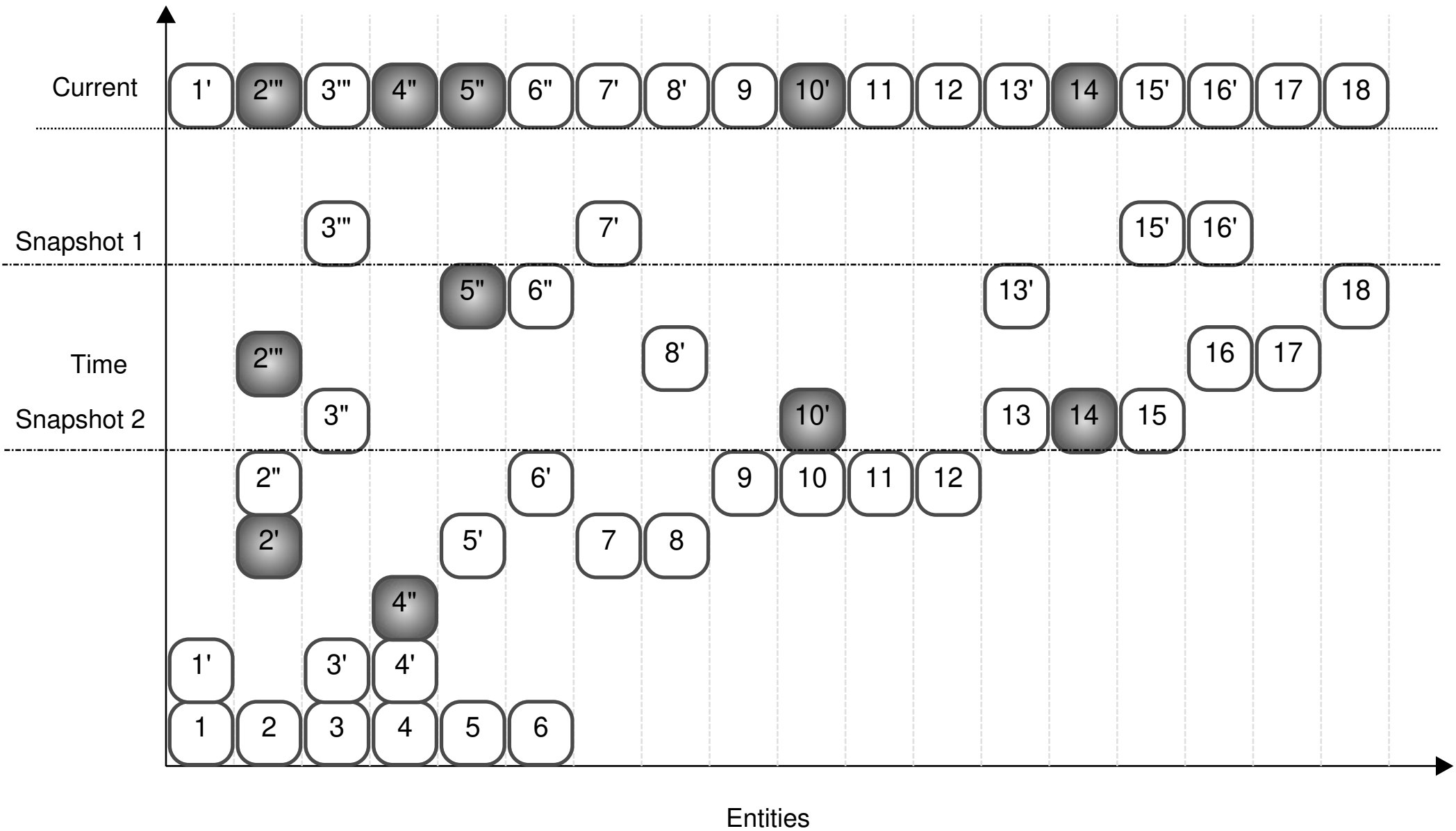
Append only - Archiving Useless data
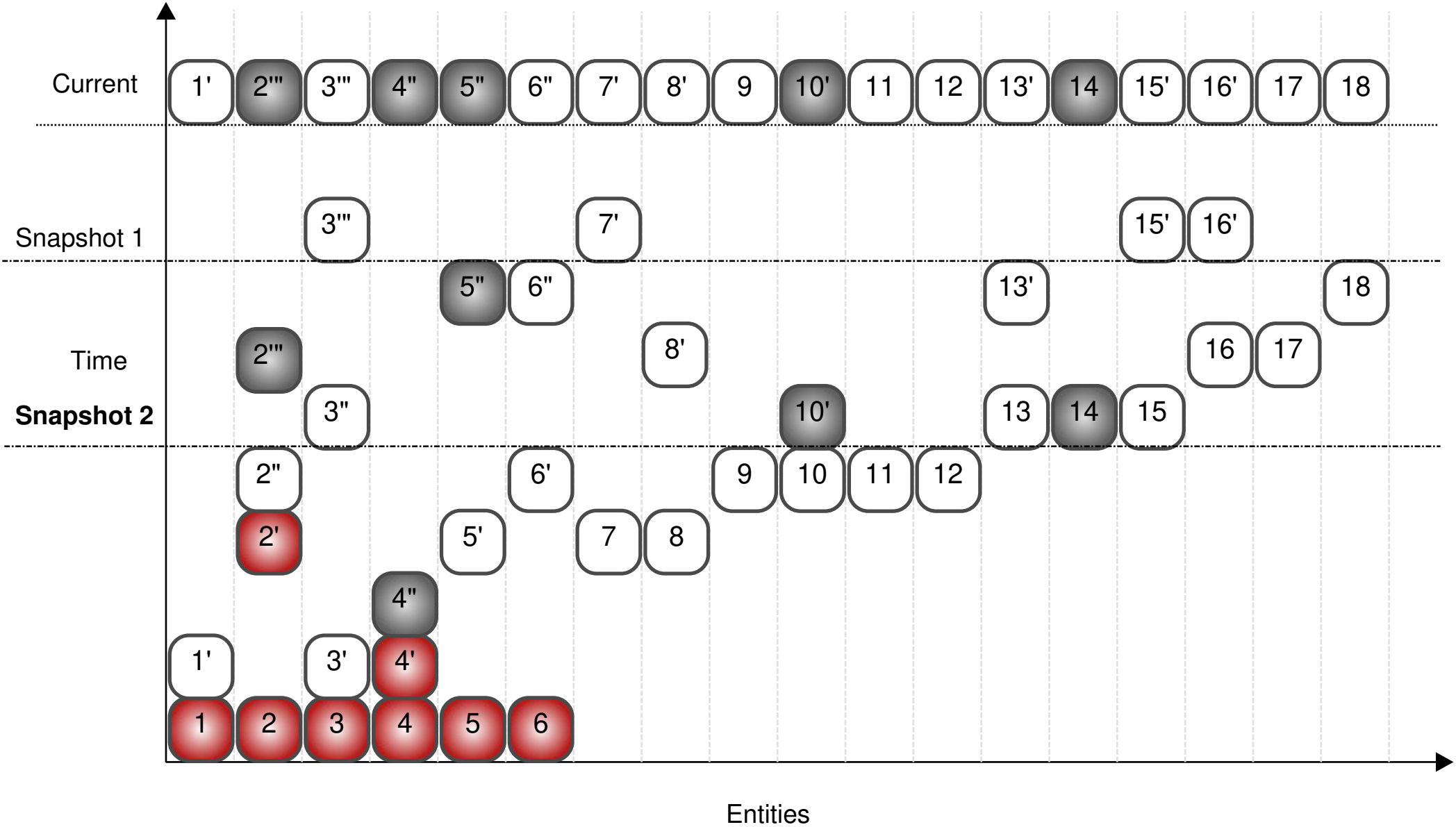
Append only - Archiving Useless data 2

Append only - Archiving Useless data 3

Current	1'	2'''	3'''	4''	5''	6''	7'	8'	9	10'	11	12	13'	14	15'	16'	17	18

Snapshot 1

| | | 3''' | | | | 7' | | | | | | | | | 15' | 16' | | |

| | | | | | 5'' | 6'' | | | | | | | 13' | | | | | 18 |

Time

| | 2''' | | | | | | | 8' | | | | | | | | 16 | 17 | |

Snapshot 2

| | | 3'' | | | | | | | | 10' | | | 13 | 14 | 15 | | | |

| | 2'' | | | | 6' | | | | 9 | 10 | 11 | 12 | | | | | | |

| | 2' | | | 5' | | 7 | 8 | | | | | | | | | | | |

| | | | 4'' | | | | | | | | | | | | | | | |

| 1' | | 3' | 4' | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | |

Entities
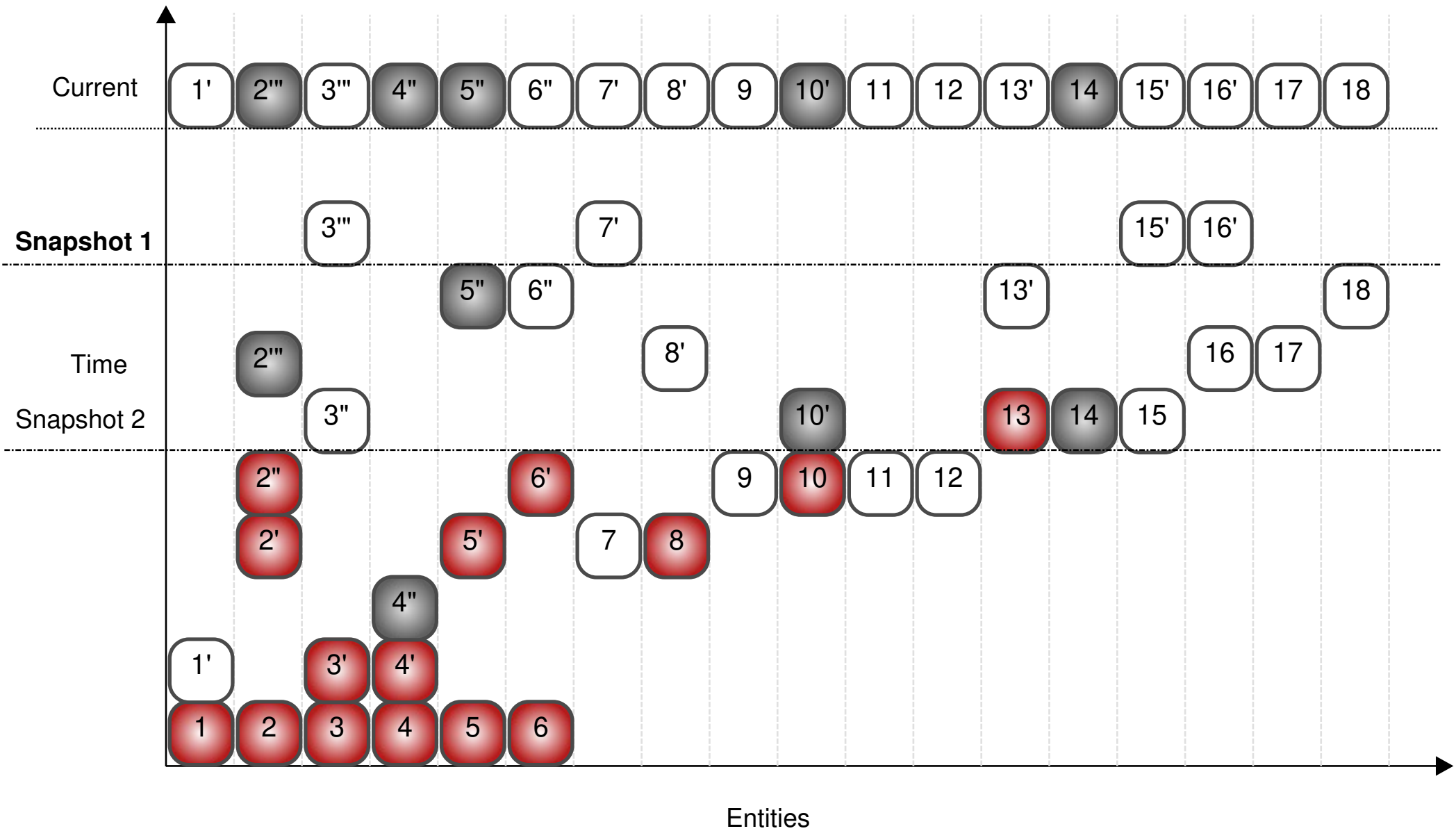
Append only - Archiving optimized

Append only - Archiving optimized 2

Append only - Archiving optimizing more

Current

Snapshot 1

Time

Snapshot 2

Entities
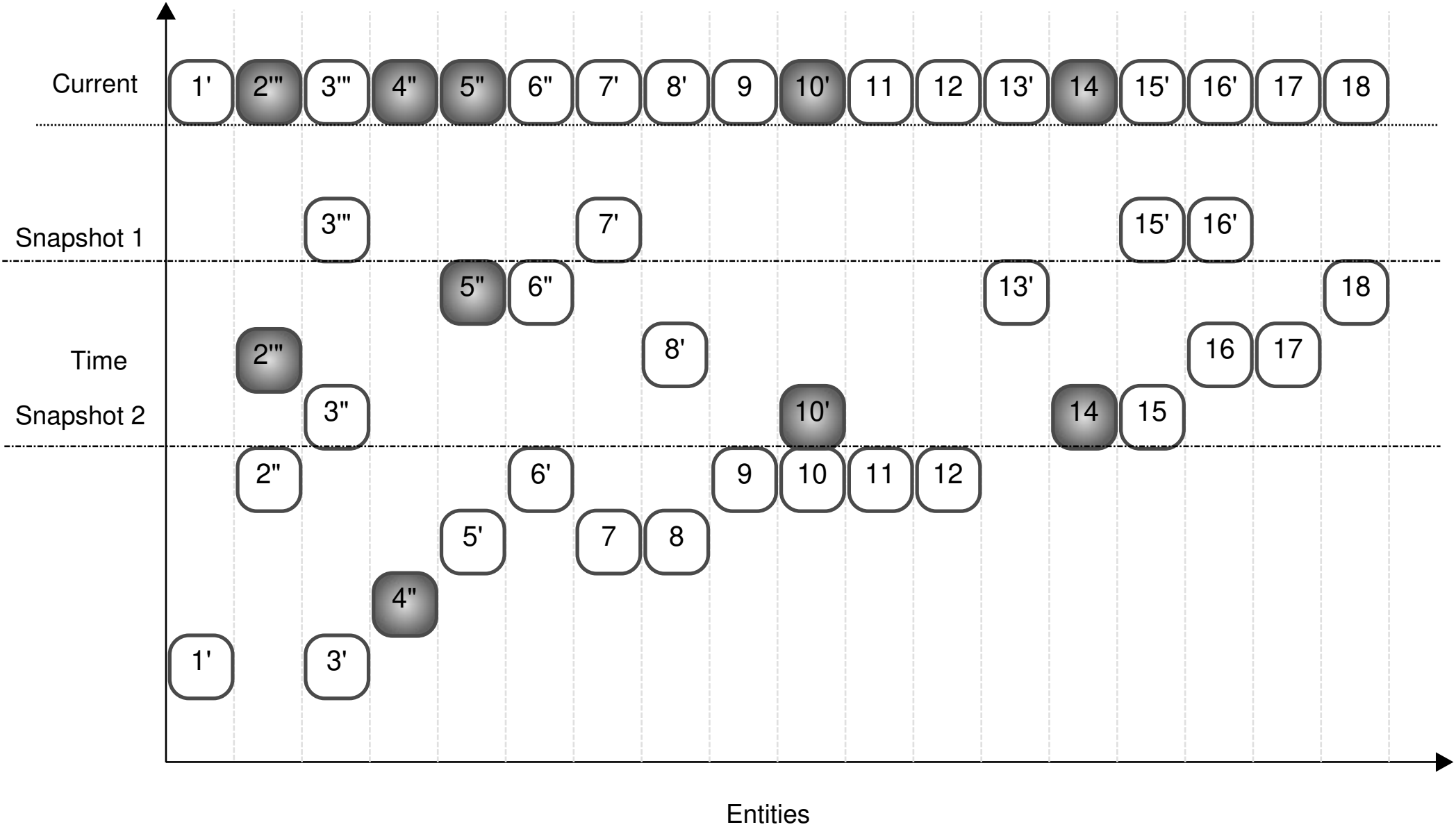
Append only - Archiving optimizing more 2
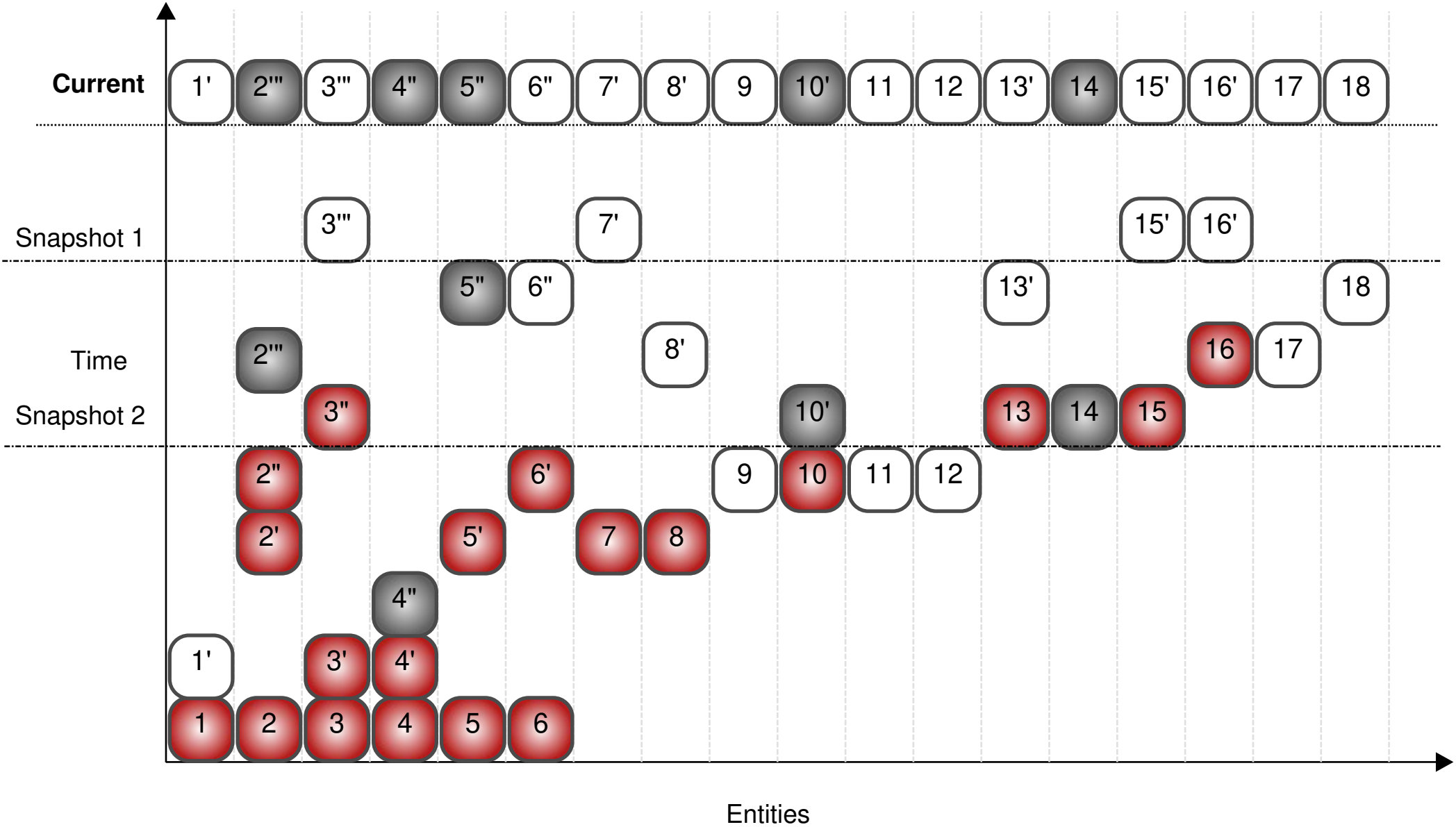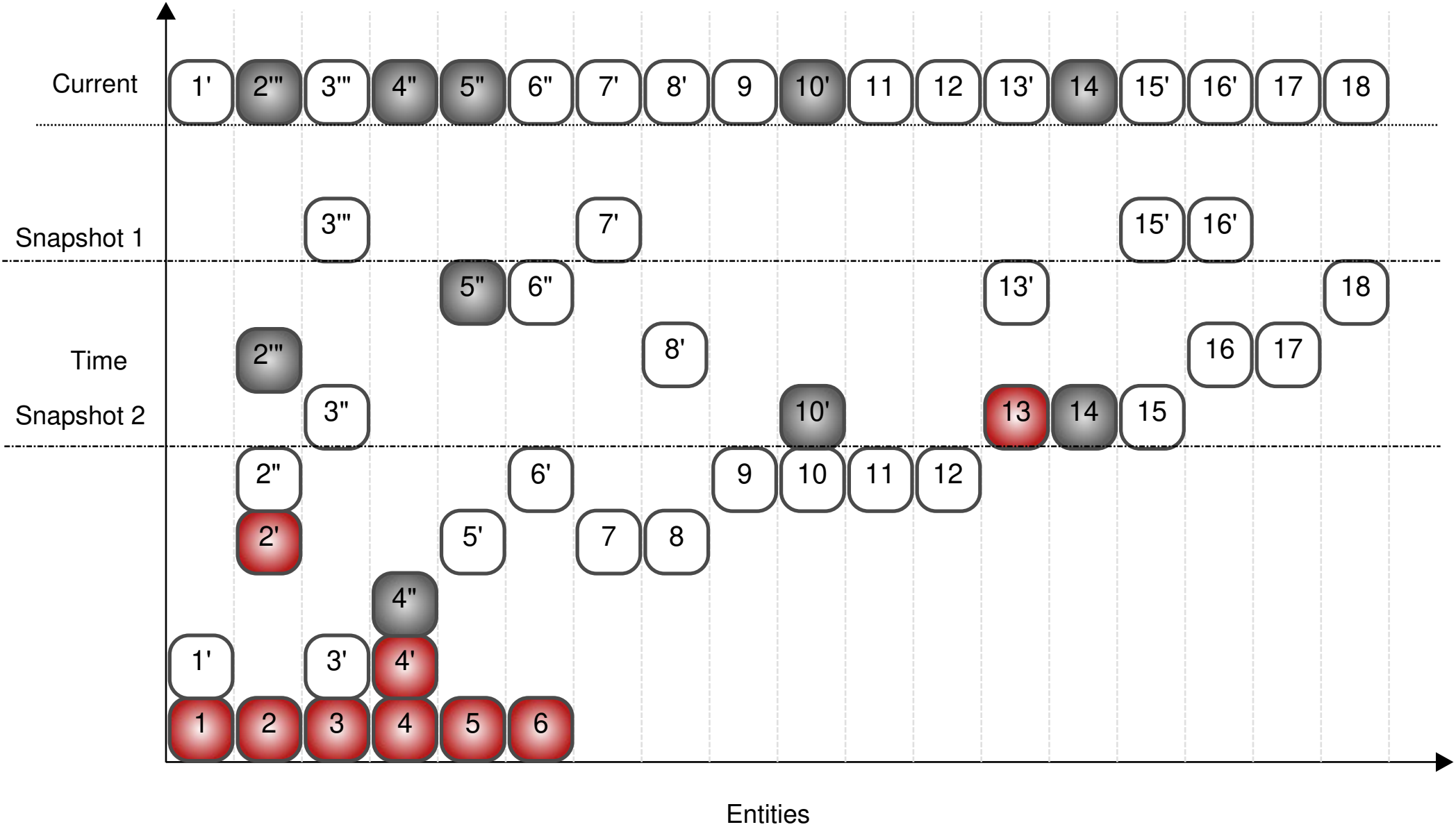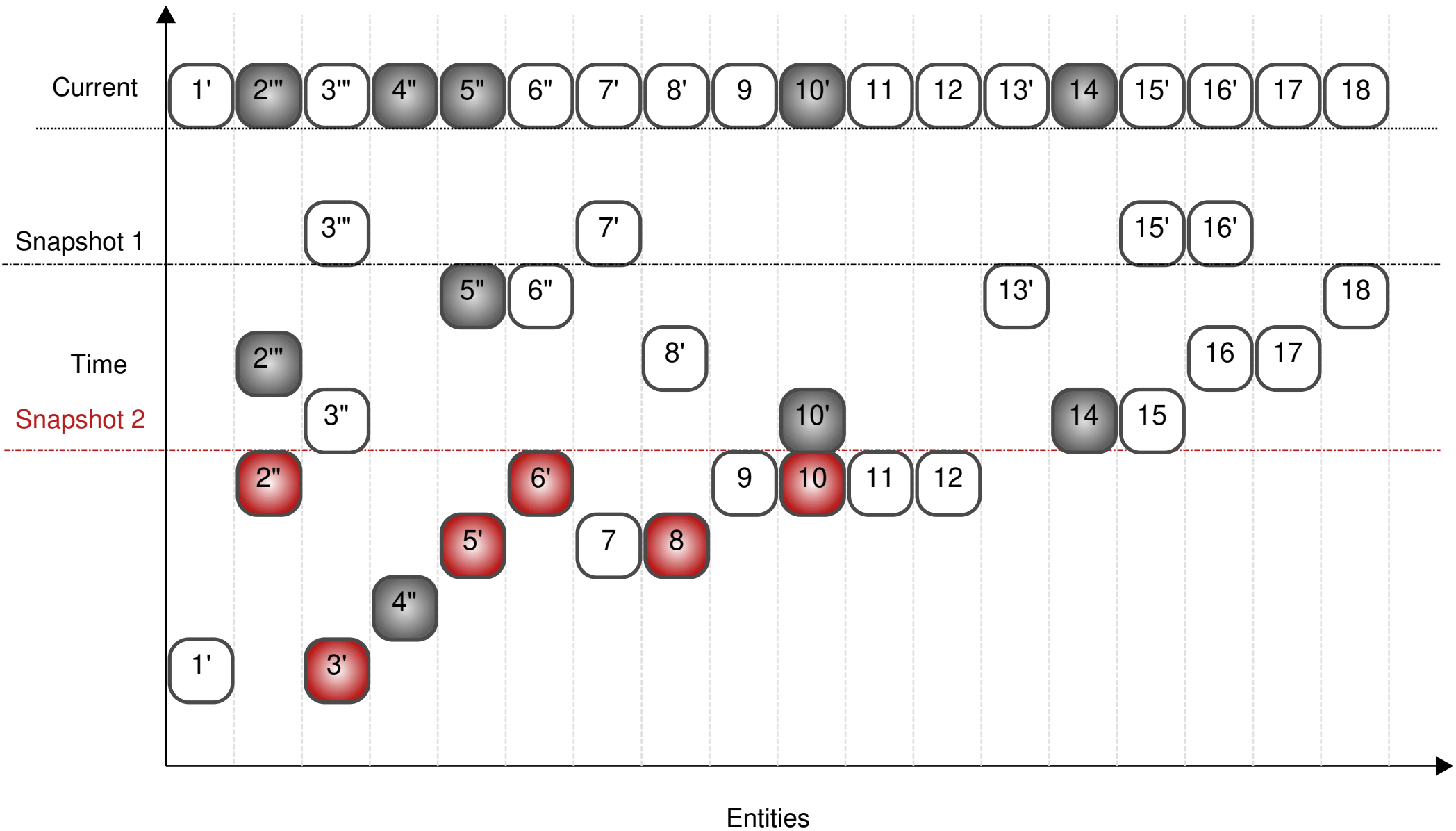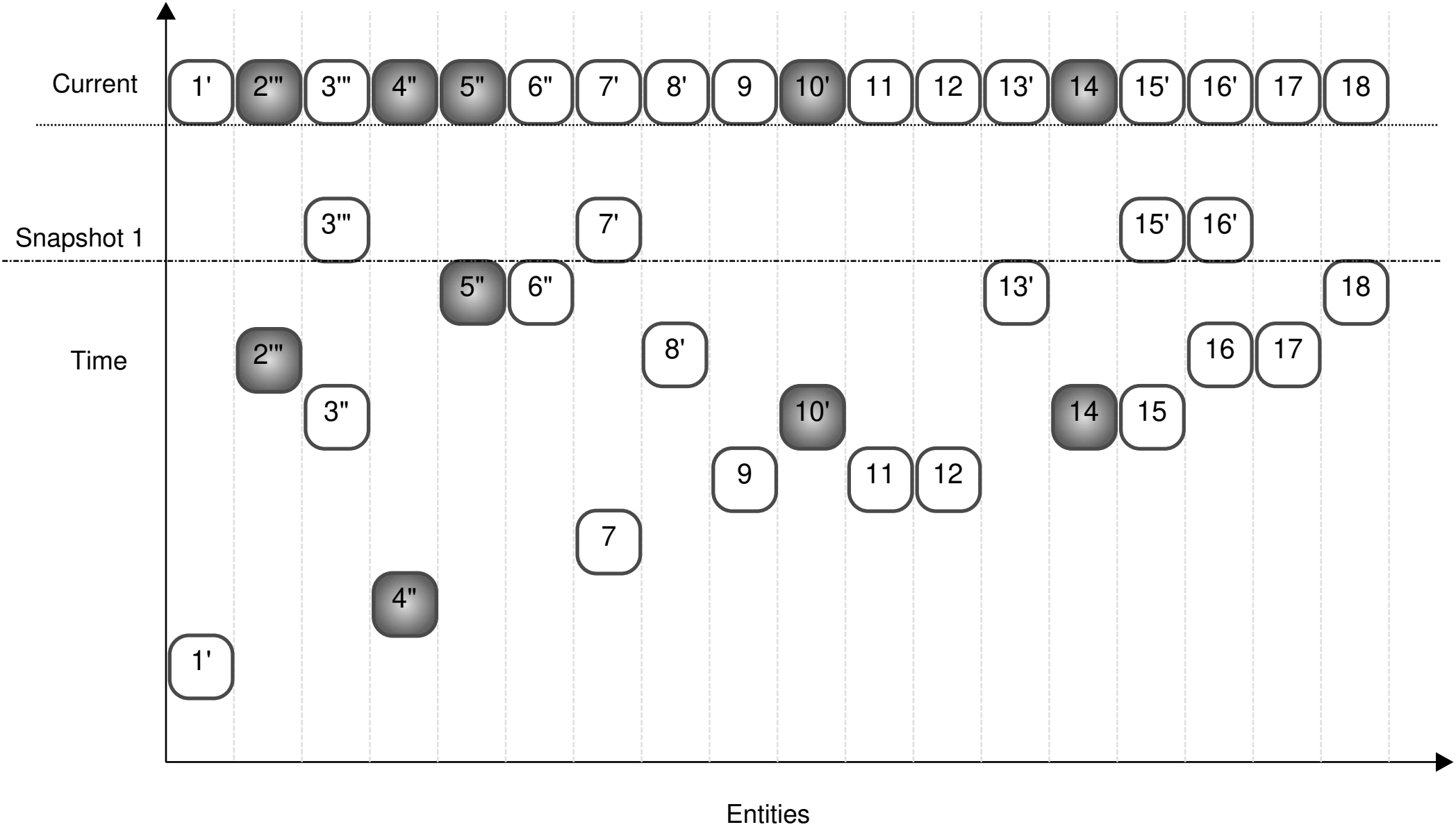
Append only - Archiving Soft Deleted

Current

Snapshot 1

Time

Snapshot 2

**Archiving
Deleted Items**

Entities

Append only - Archiving Old time deleted

Current: 1' 2''' 3''' 4'' 5'' 6'' 7' 8' 9 10' 11 12 13' 14 15' 16' 17 18

Snapshot 1: 3''' 7' 15' 16'

Time: 5'' 6'' 13' 18 / 2''' 8' 16 17

Snapshot 2: 3'' 10' 13 14 15

2'' / 6' 9 10 11 12

2' 5' 7 8

4''

1' 3' 4'

1 2 3 4 5 6

Entities

Append only - Archiving Old time deleted 2

Append only - Archiving Old time deleted 3

Current: 1' 2''' 3''' 4'' 5'' 6'' 7' 8' 9 10' 11 12 13' 14 15' 16' 17 18

Snapshot 1

Time

Snapshot 2

Snapshot 3

Entities

Append only - Archiving Old time deleted Result

Entities

Append only - Archiving Old time deleted Risk

Current: 1' 2''' 3''' 5'' 6'' 7' 8' 9 10' 11 12 13' 14 15' 16' 17 18 4

Snapshot 1: 3''' 7' 15' 16'

Time: 5'' 6'' 2''' 8' 13' 18 17 3'' 10' 14 15 9 11 12 7 1'

Entities
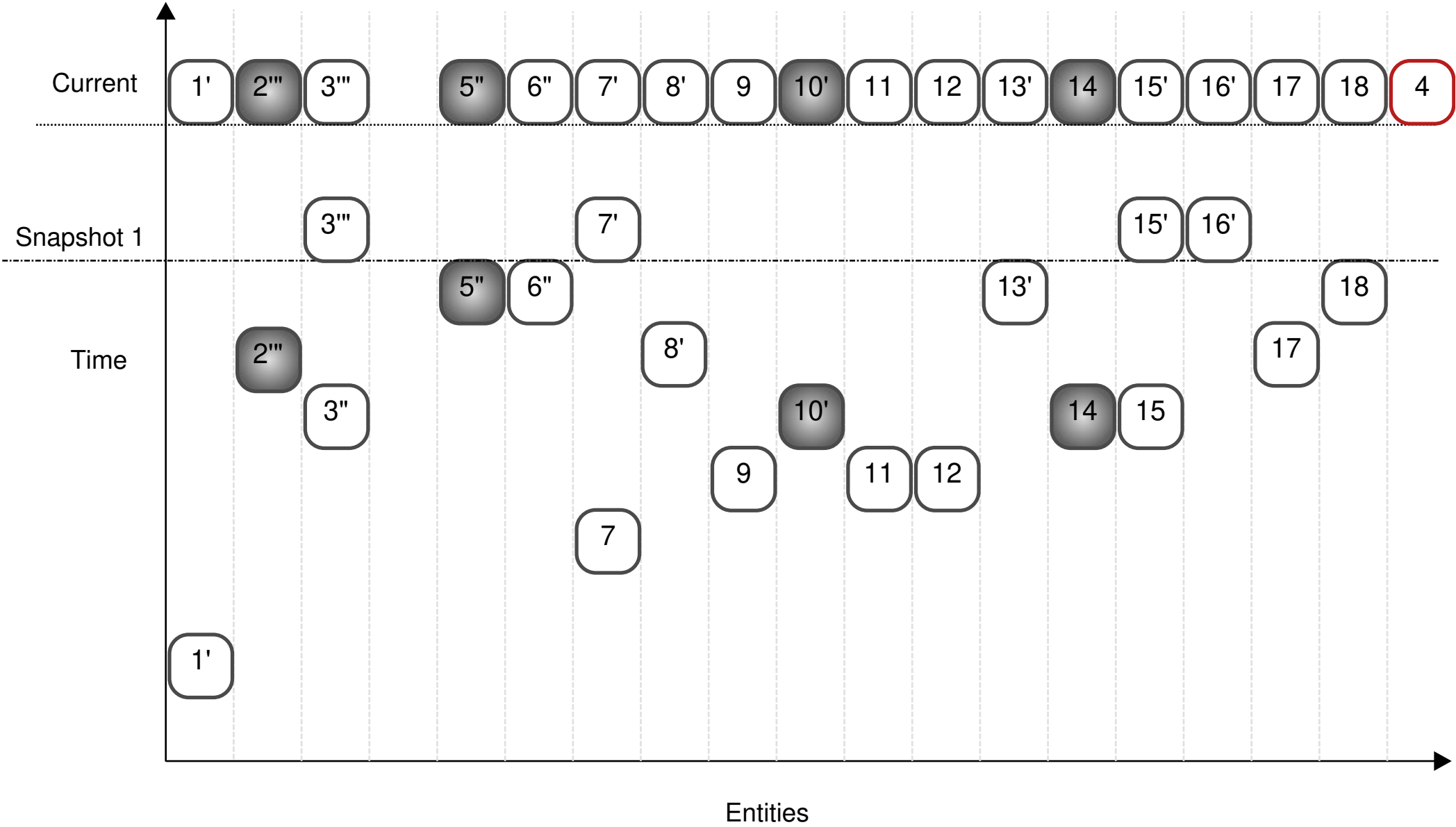
Append only - Storage Optimization

Current

Snapshot 1

Time

Snapshot 2

Data Optimization

Entities
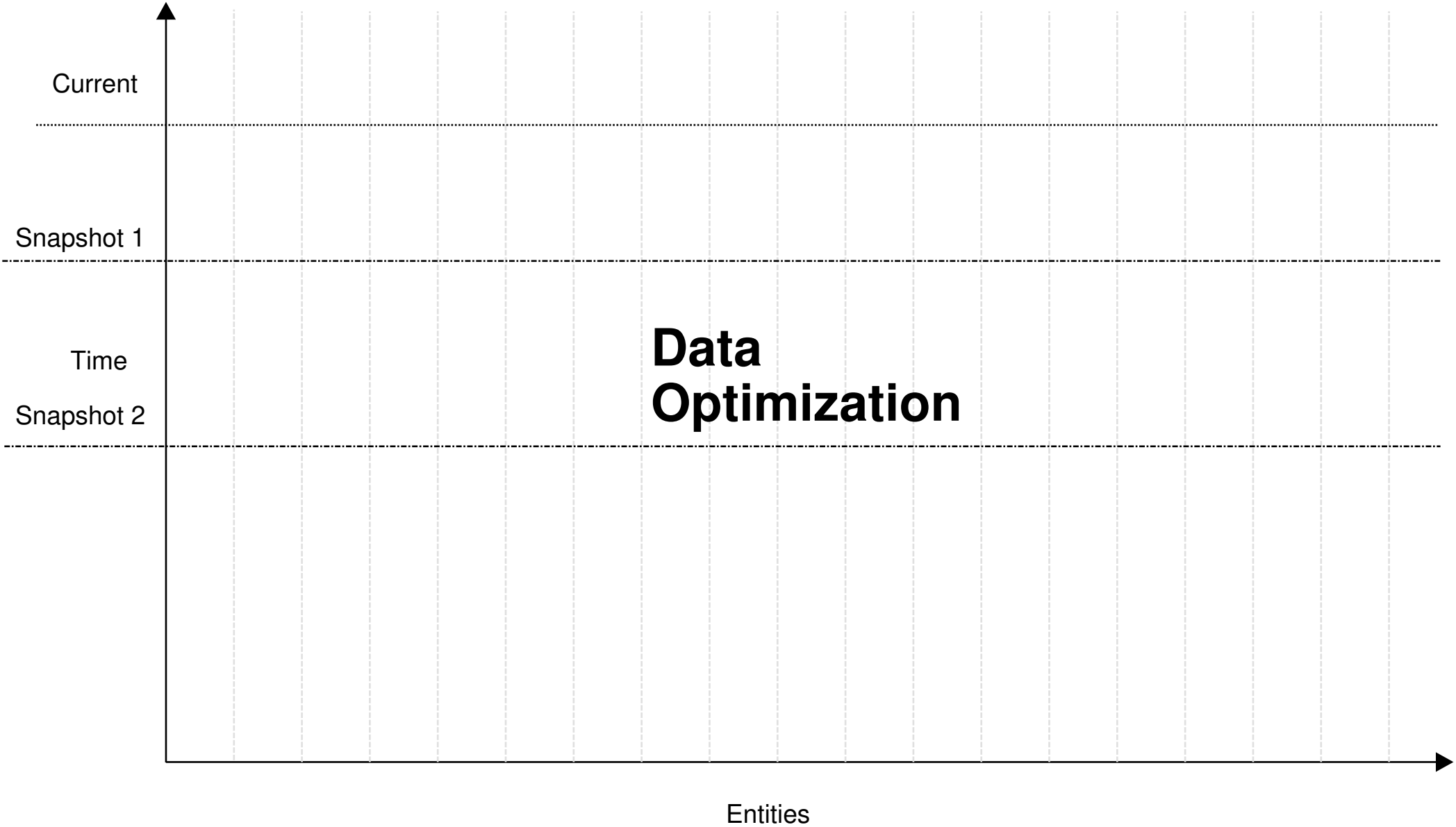
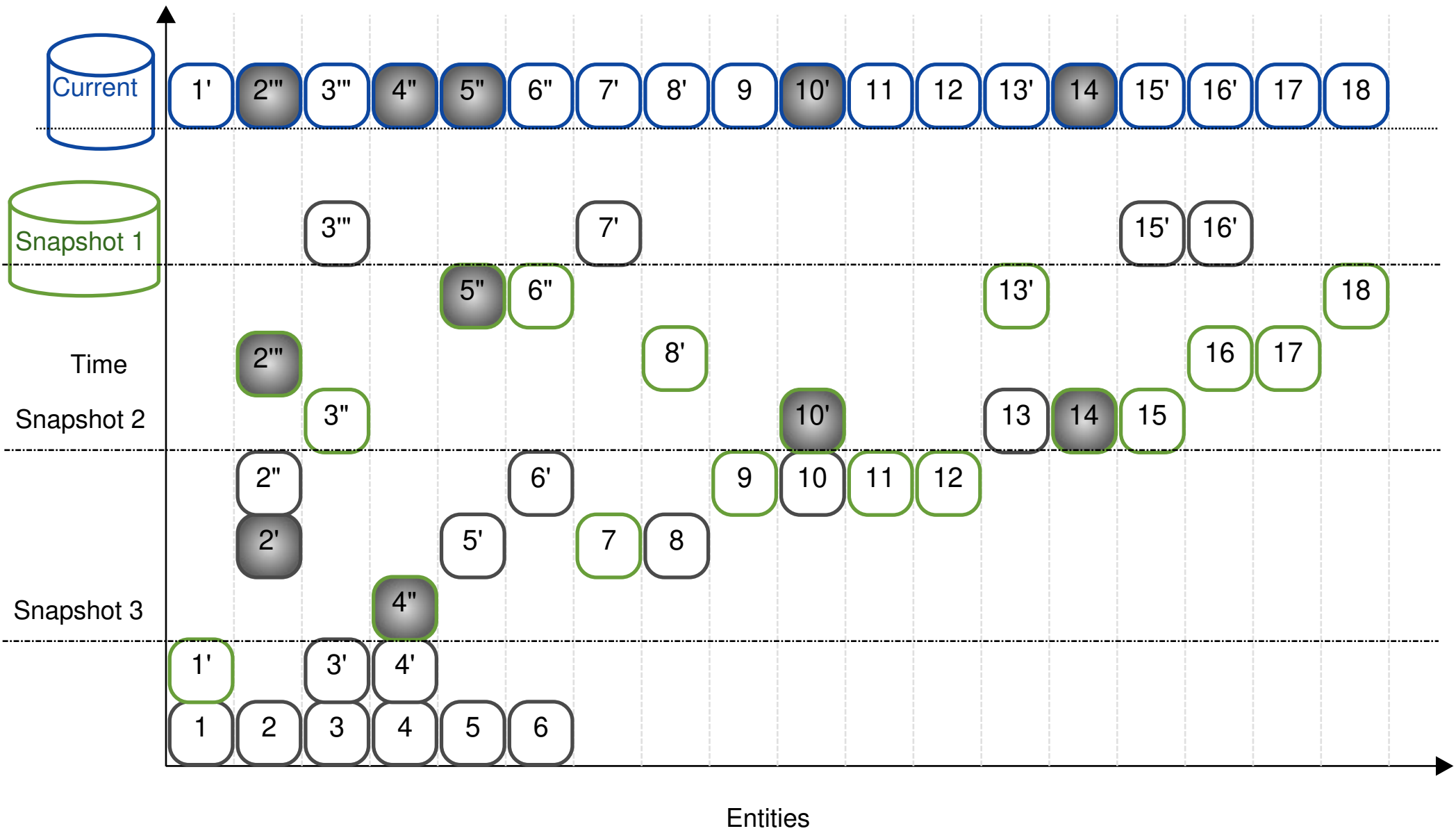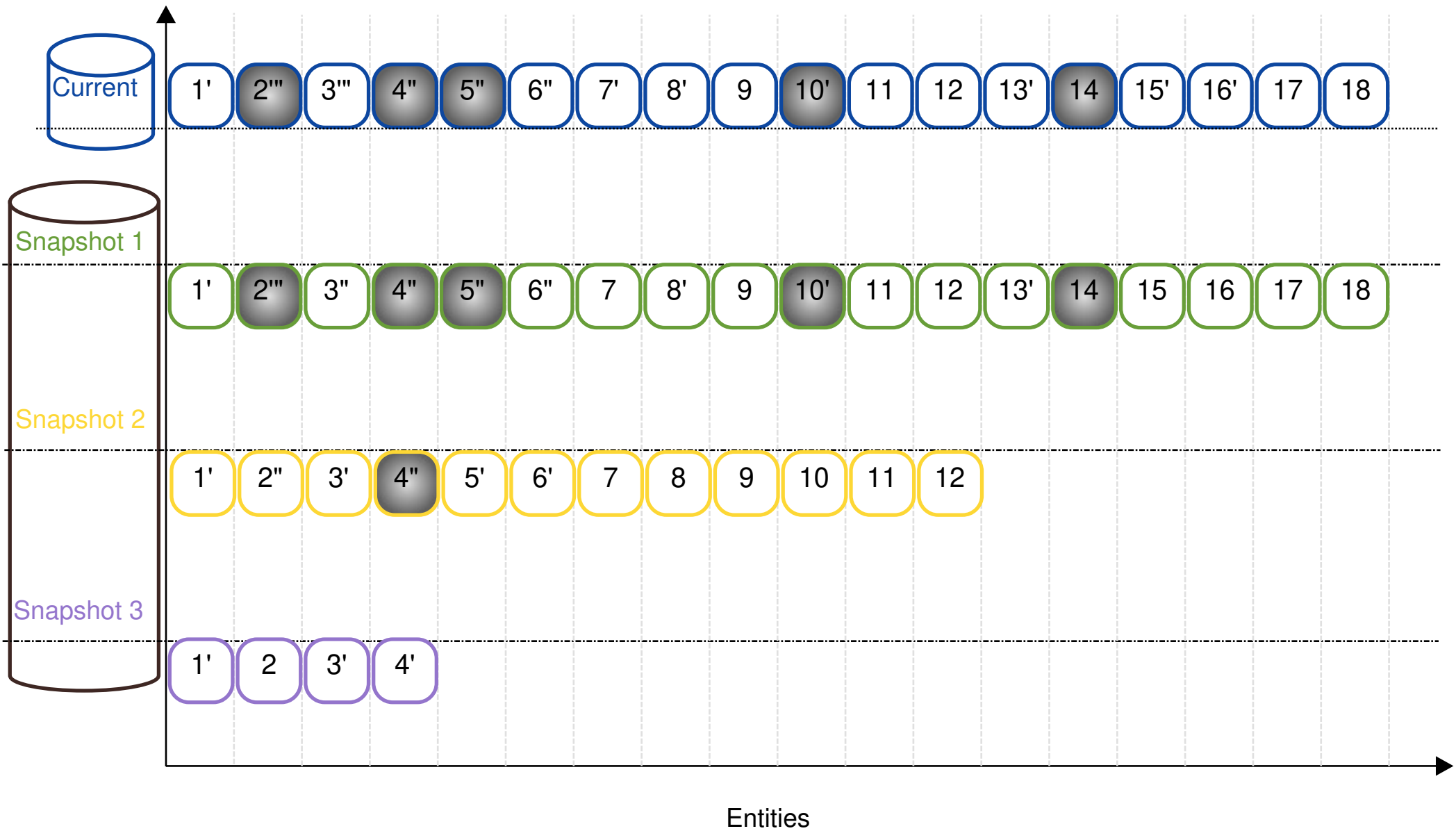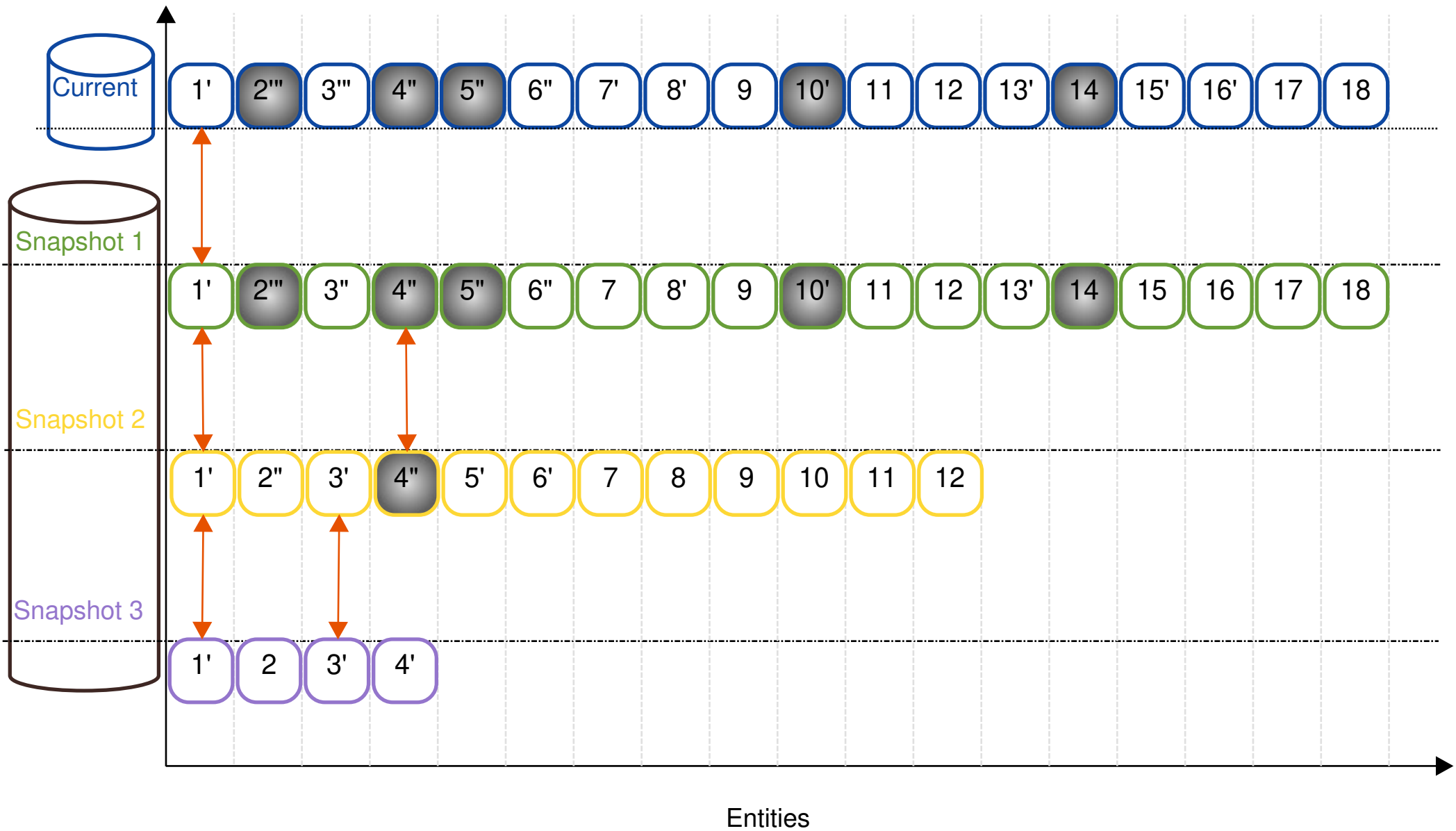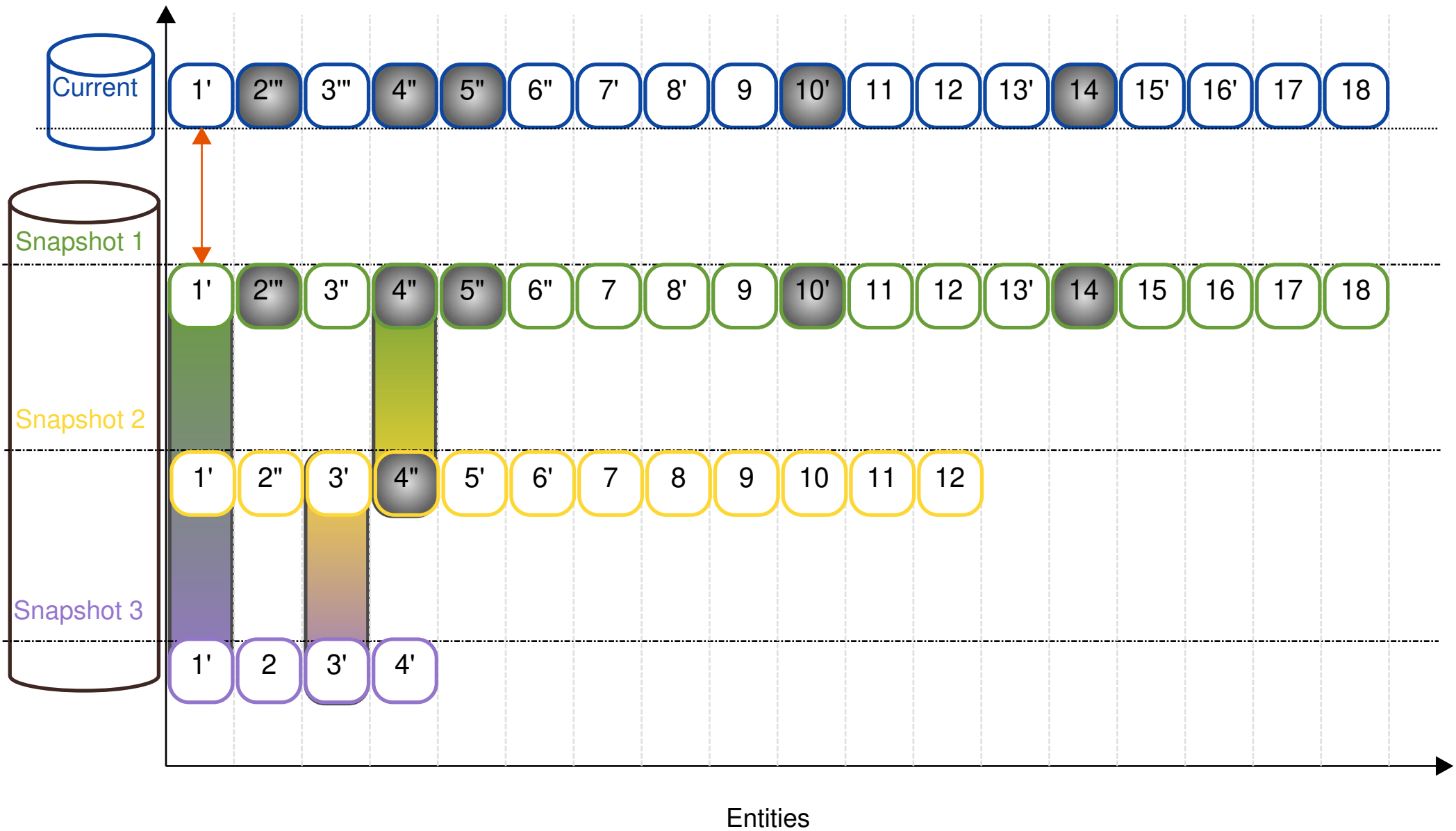# Append only - Collection optimization
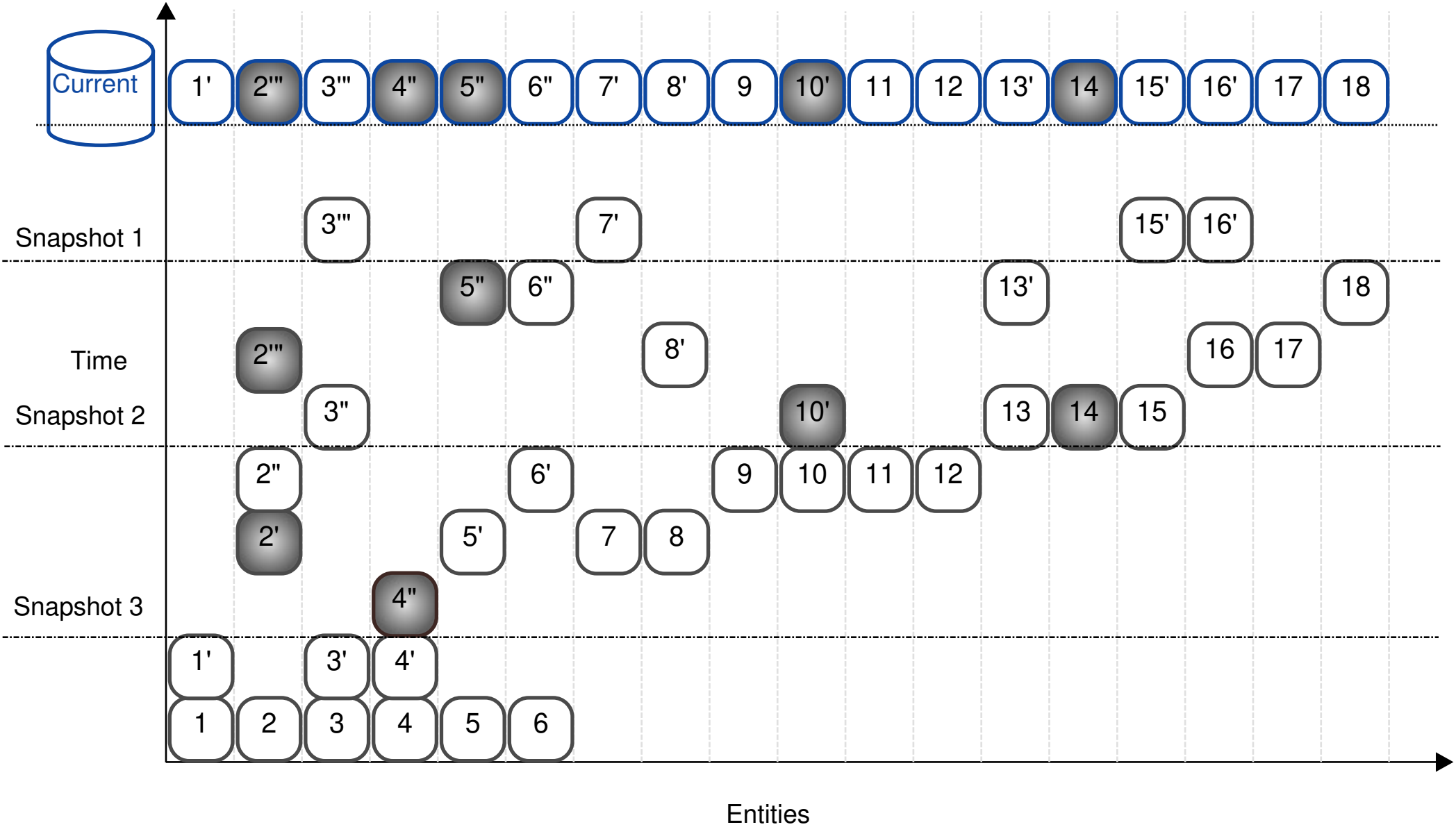
Append only - Collection optimization snapshot

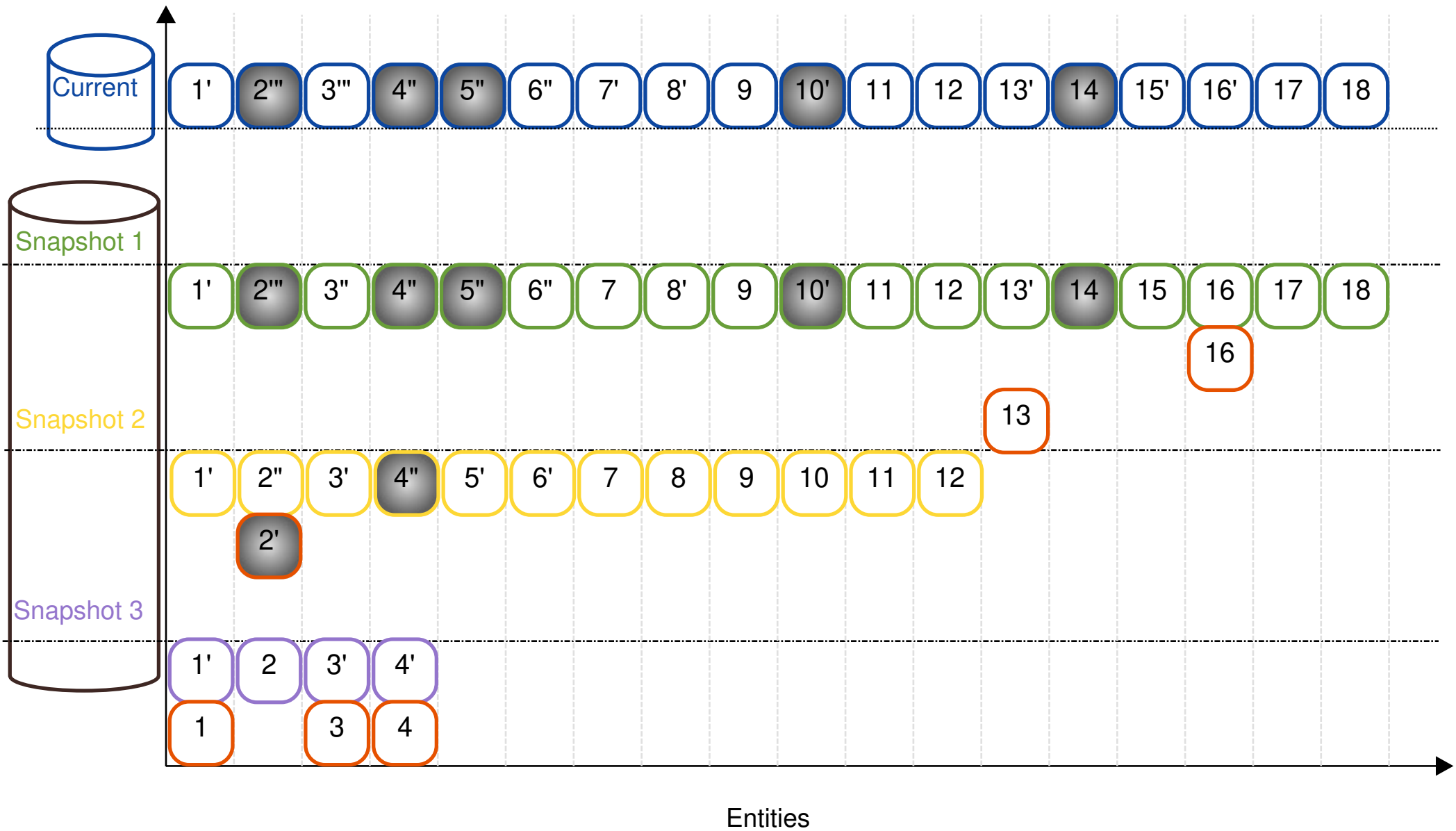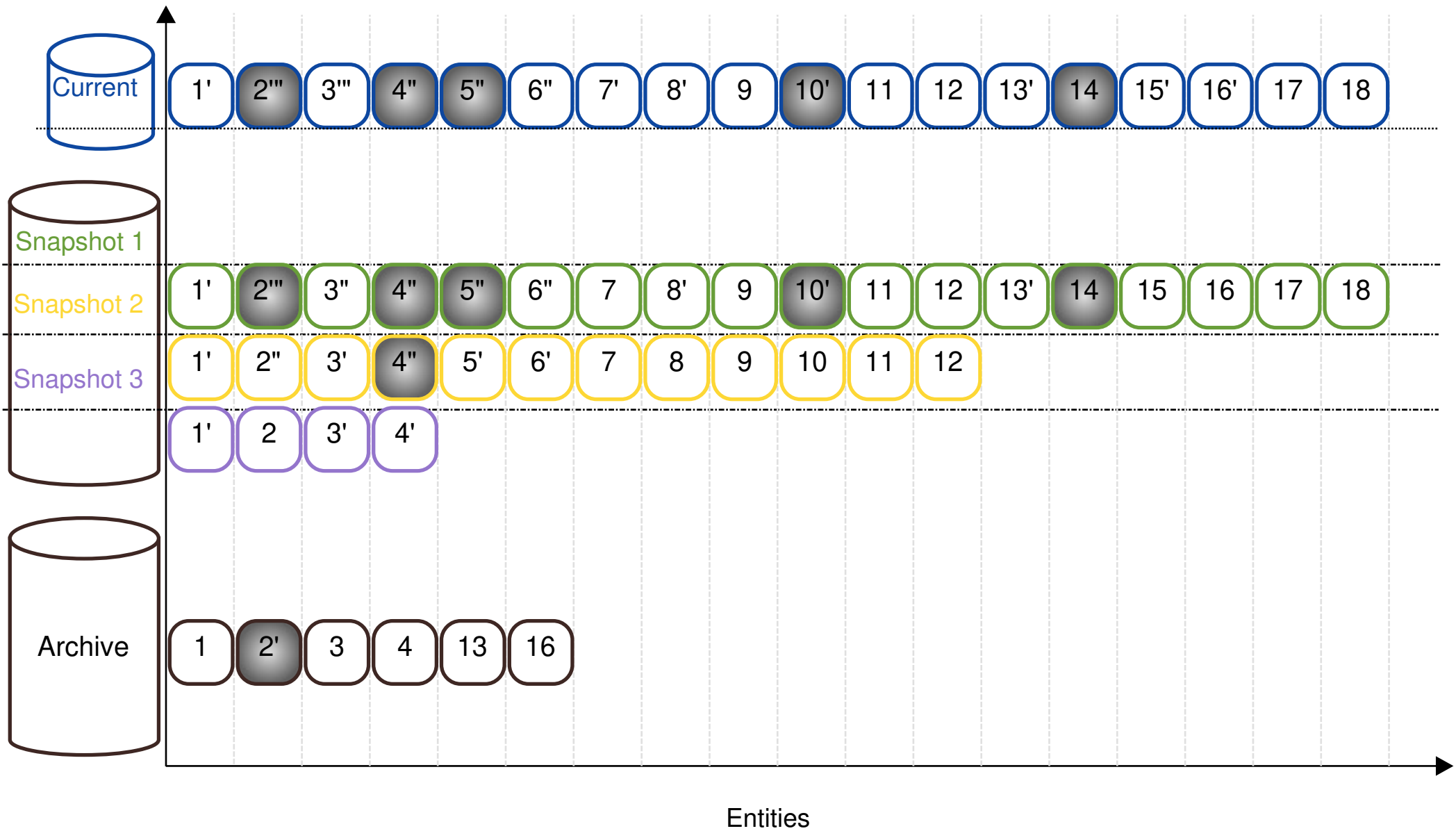# Append only - Collection optimization snapshot all

Entities

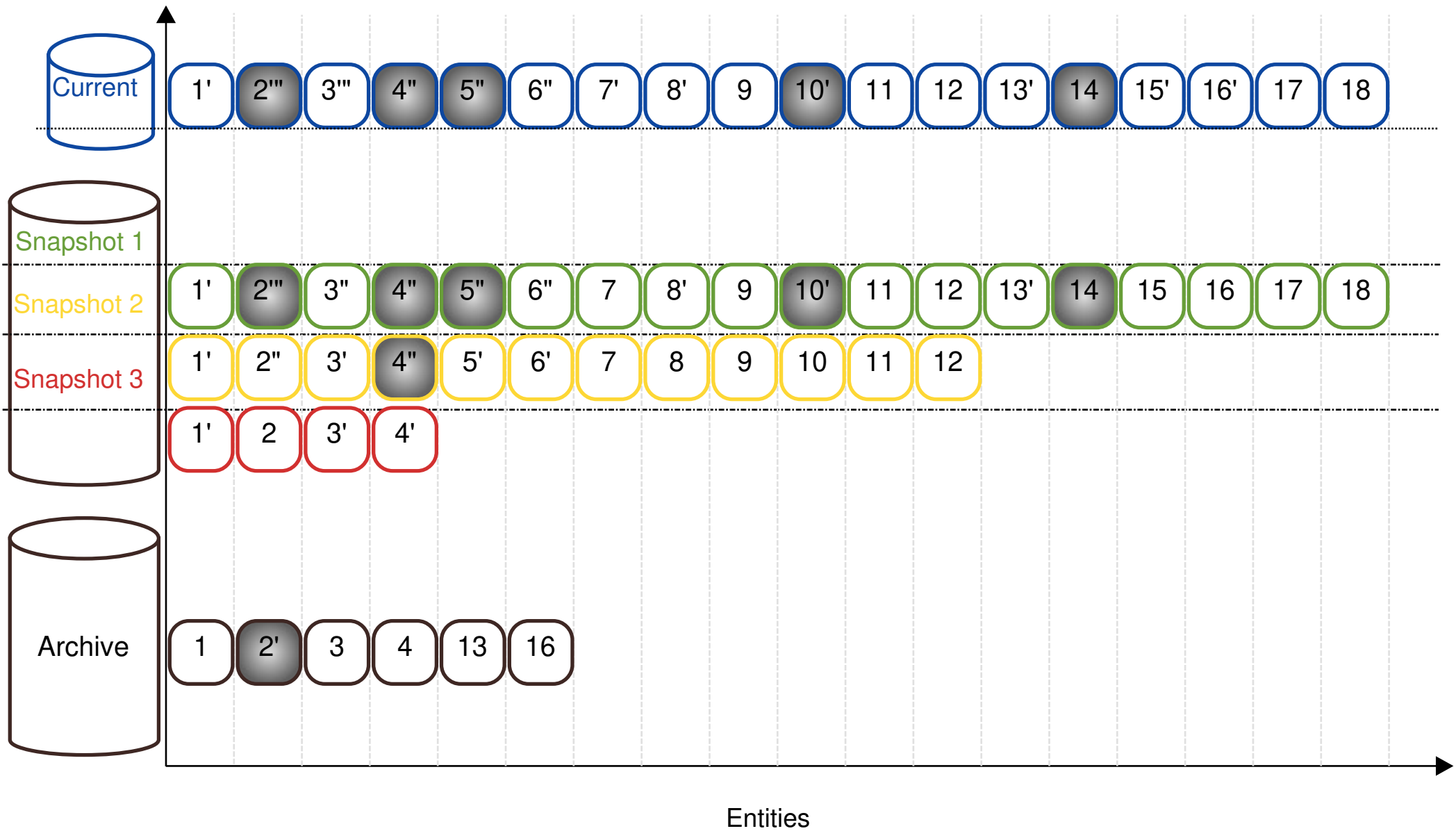**Append only - Collection optimization snapshot all duplicate**

Append only - Collection optimization snapshot all duplicate 2

Append only - Collection optimization snapshot all duplicate 3

Append only - Collection optimization snapshot all duplicate archive
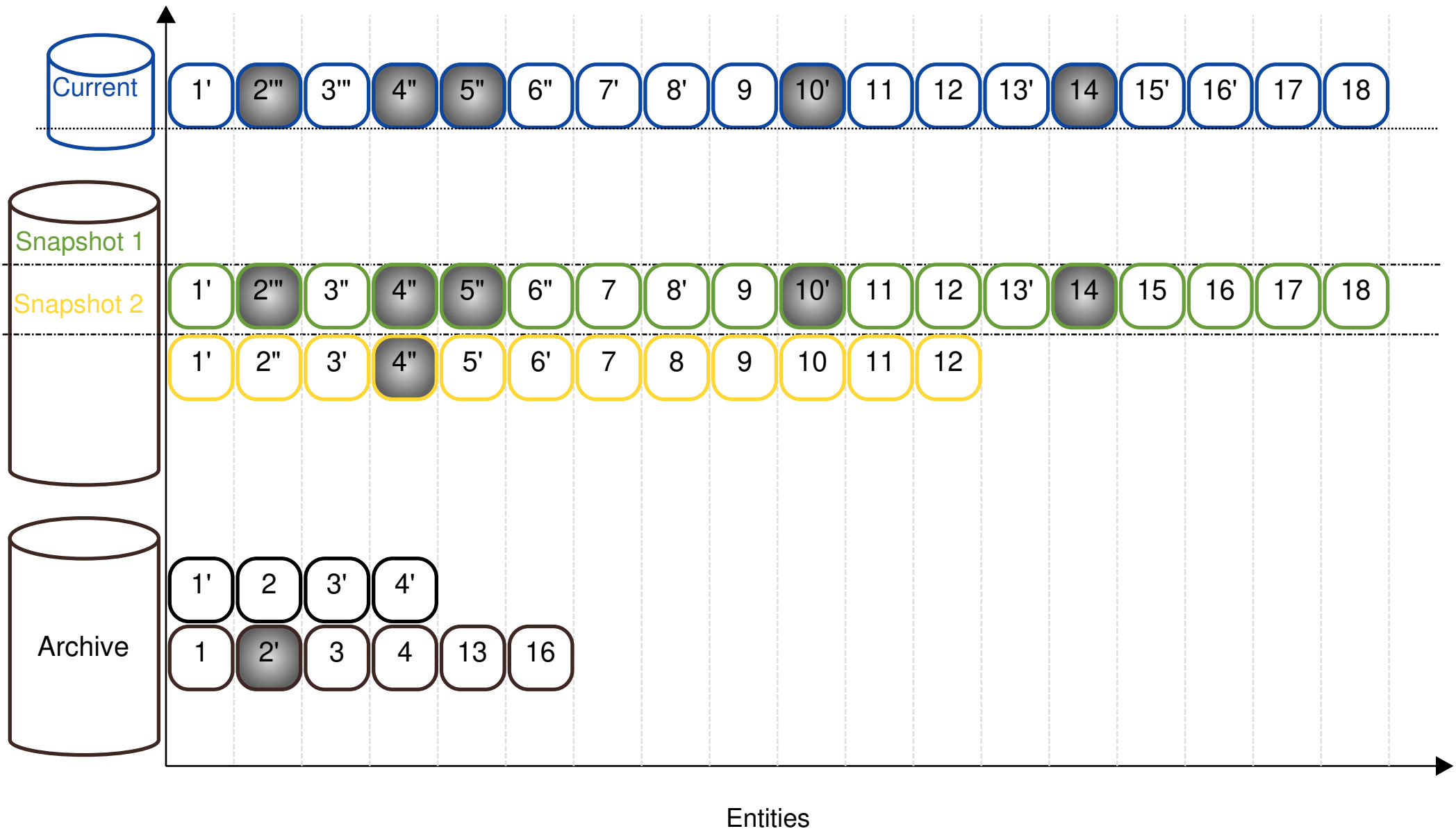

Current: 1' 2''' 3''' 4'' 5'' 6'' 7' 8' 9 10' 11 12 13' 14 15' 16' 17 18

Snapshot 1: 1' 2''' 3'' 4'' 5'' 6'' 7 8' 9 10' 11 12 13' 14 15 16 17 18
16

13

Snapshot 2: 1' 2'' 3' 4'' 5' 6' 7 8 9 10 11 12
2'

Snapshot 3: 1' 2 3' 4'
1 3 4

Entities

Append only - Collection optimization snapshot all duplicate archive 2

Entities

Append only - Archiving snapshot

Append only - Archiving snapshot 1
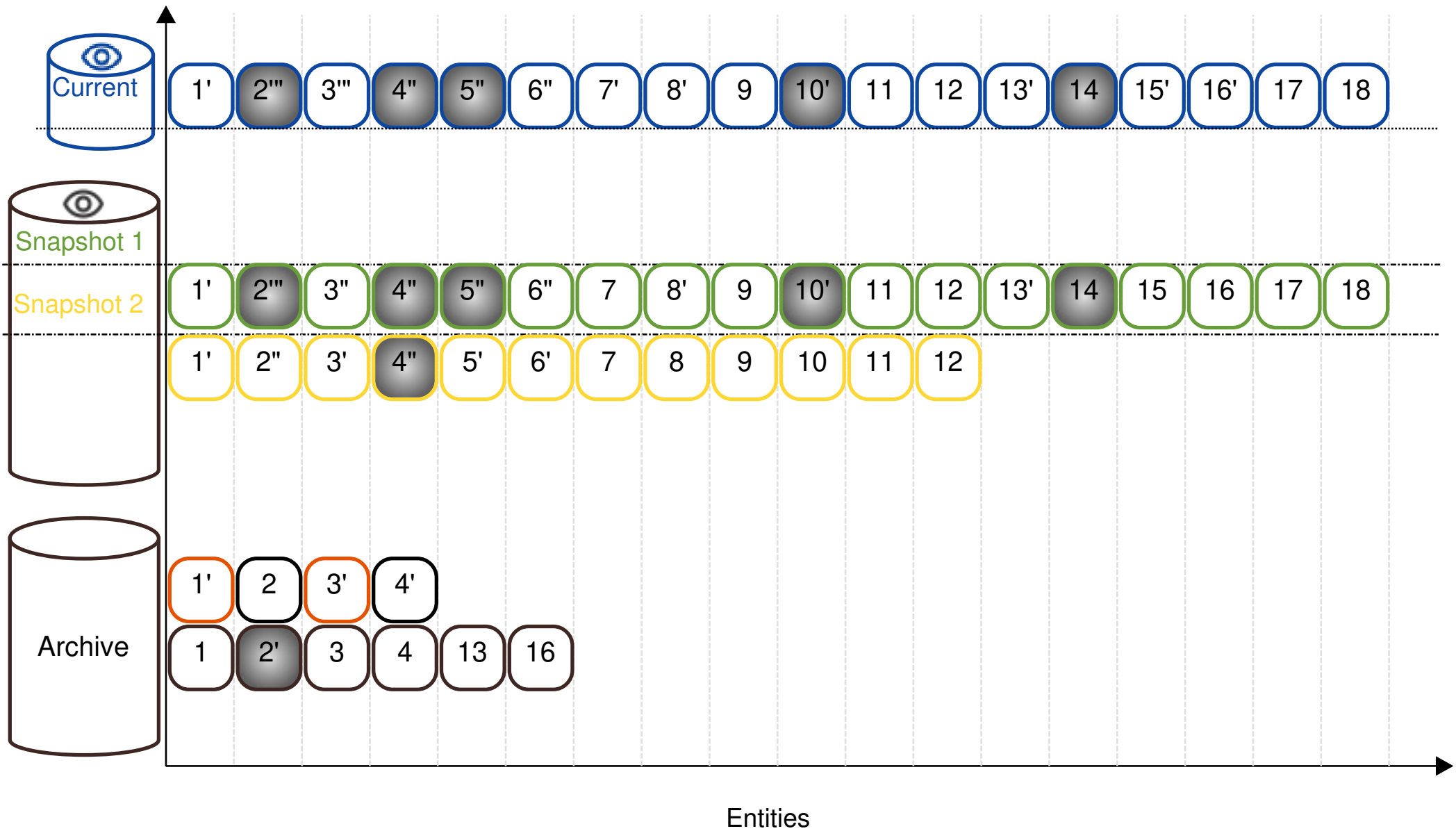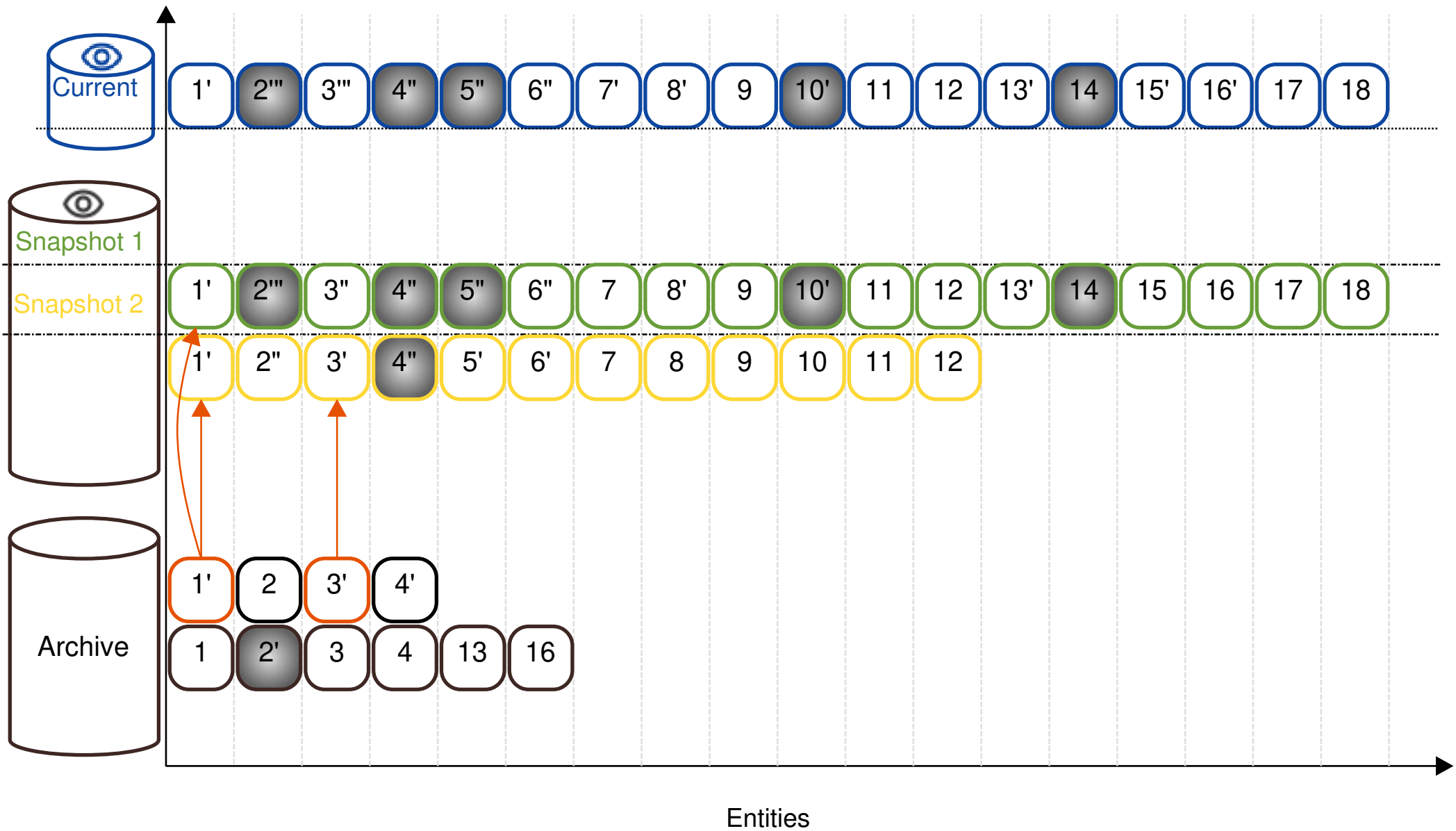
Current: 1' 2''' 3''' 4'' 5'' 6'' 7' 8' 9 10' 11 12 13' 14 15' 16' 17 18

Snapshot 1
Snapshot 2

Snapshot 1 row: 1' 2''' 3'' 4'' 5'' 6'' 7 8' 9 10' 11 12 13' 14 15 16 17 18

Snapshot 2 row: 1' 2'' 3' 4'' 5' 6' 7 8 9 10 11 12
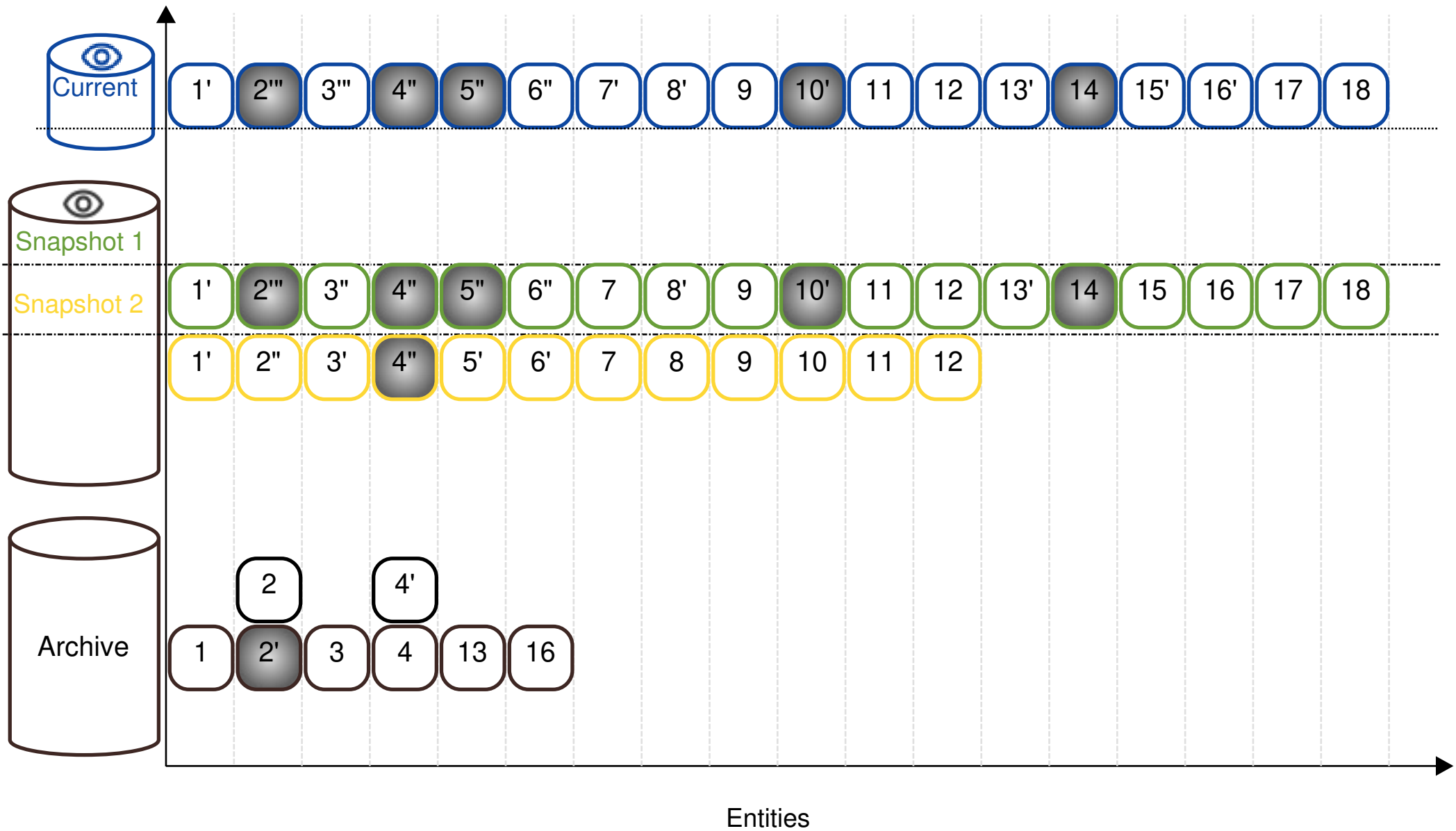
Archive: 1' 2 3' 4'
Archive: 1 2' 3 4 13 16

Entities

Append only - Archiving snapshot 2

Current

Snapshot 1

Snapshot 2

Archive

Entities

Append only - Archiving snapshot 2.5

Entities

Append only - Archiving snapshot 3

Current: 1' | 2''' | 3''' | 4'' | 5'' | 6'' | 7' | 8' | 9 | 10' | 11 | 12 | 13' | 14 | 15' | 16' | 17 | 18

Snapshot 1 / Snapshot 2: 1' | 2''' | 3'' | 4'' | 5'' | 6'' | 7 | 8' | 9 | 10' | 11 | 12 | 13' | 14 | 15 | 16 | 17 | 18

1' | 2'' | 3' | 4'' | 5' | 6' | 7 | 8 | 9 | 10 | 11 | 12

Archive: 2 | 4'

1 | 2' | 3 | 4 | 13 | 16

Entities

Append only - Saving Duplicate

Current

Snapshot 1

Time

Snapshot 2

**Saving
Duplicate**

Entities

Append only - Duplicates

Current   1'''   2

Snapshot 1

1'''   2

Time

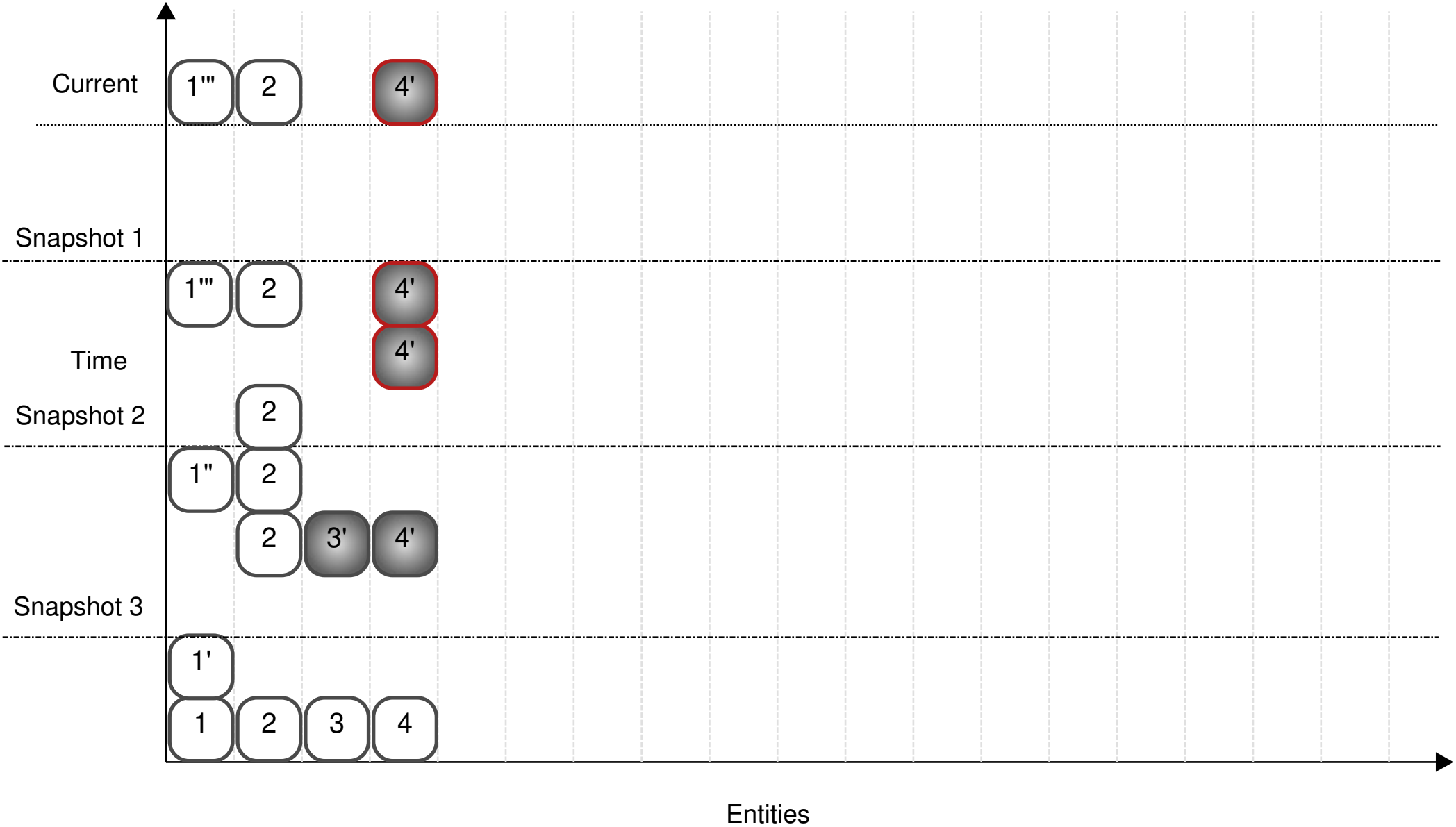Snapshot 2   2

1''   2

2

Snapshot 3

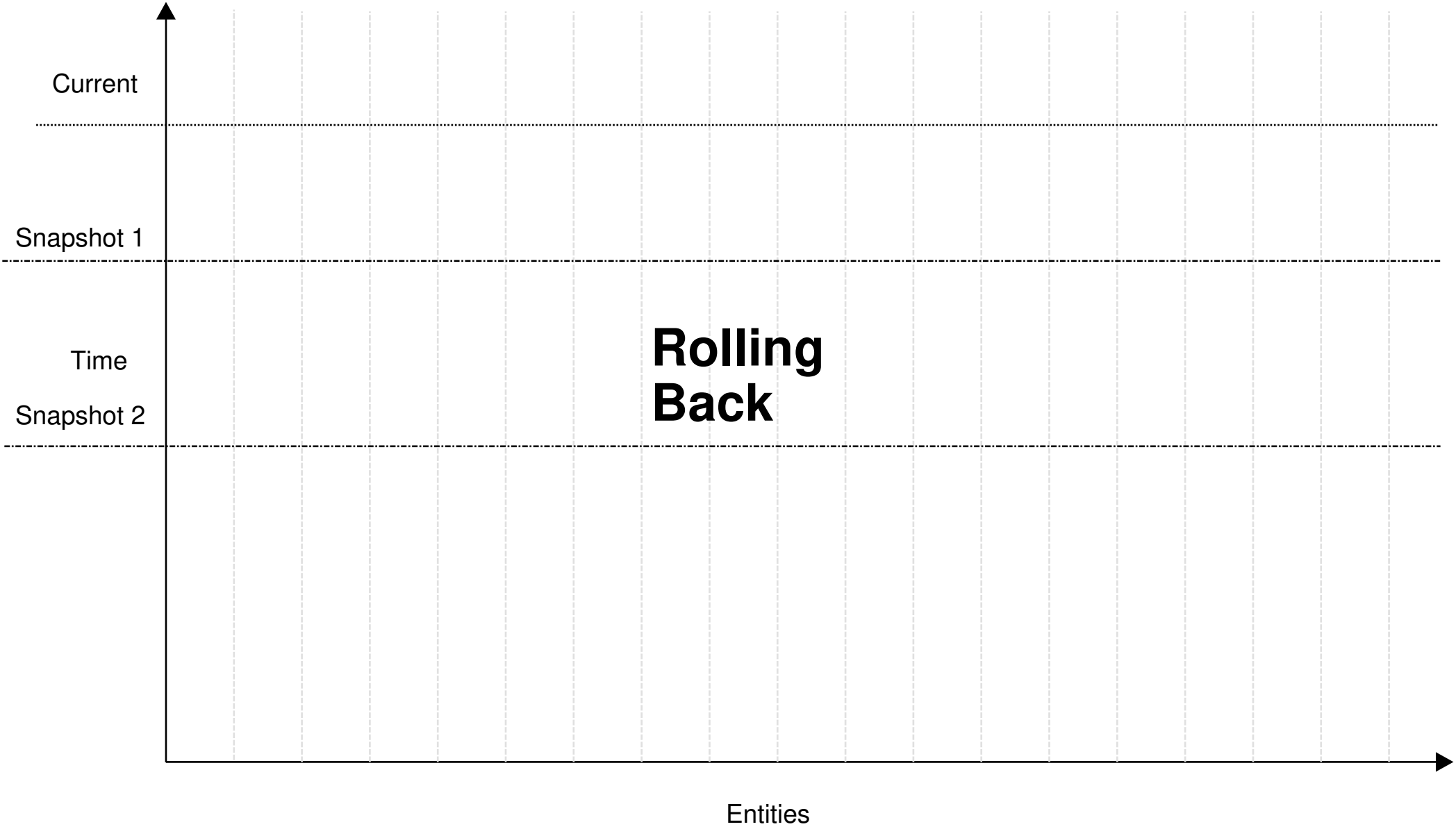1'

1   2

Entities
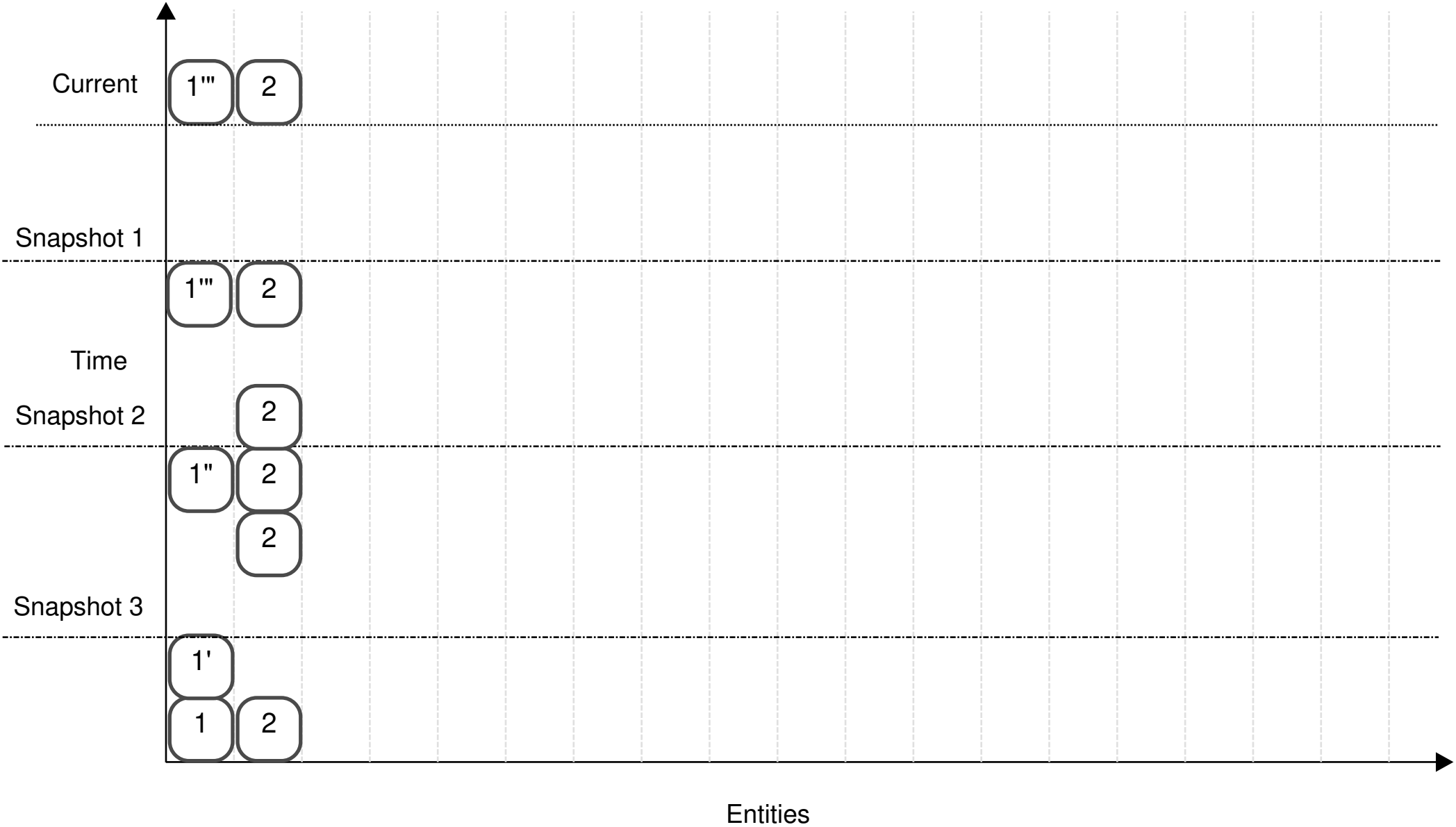
Append only - Duplicates 2
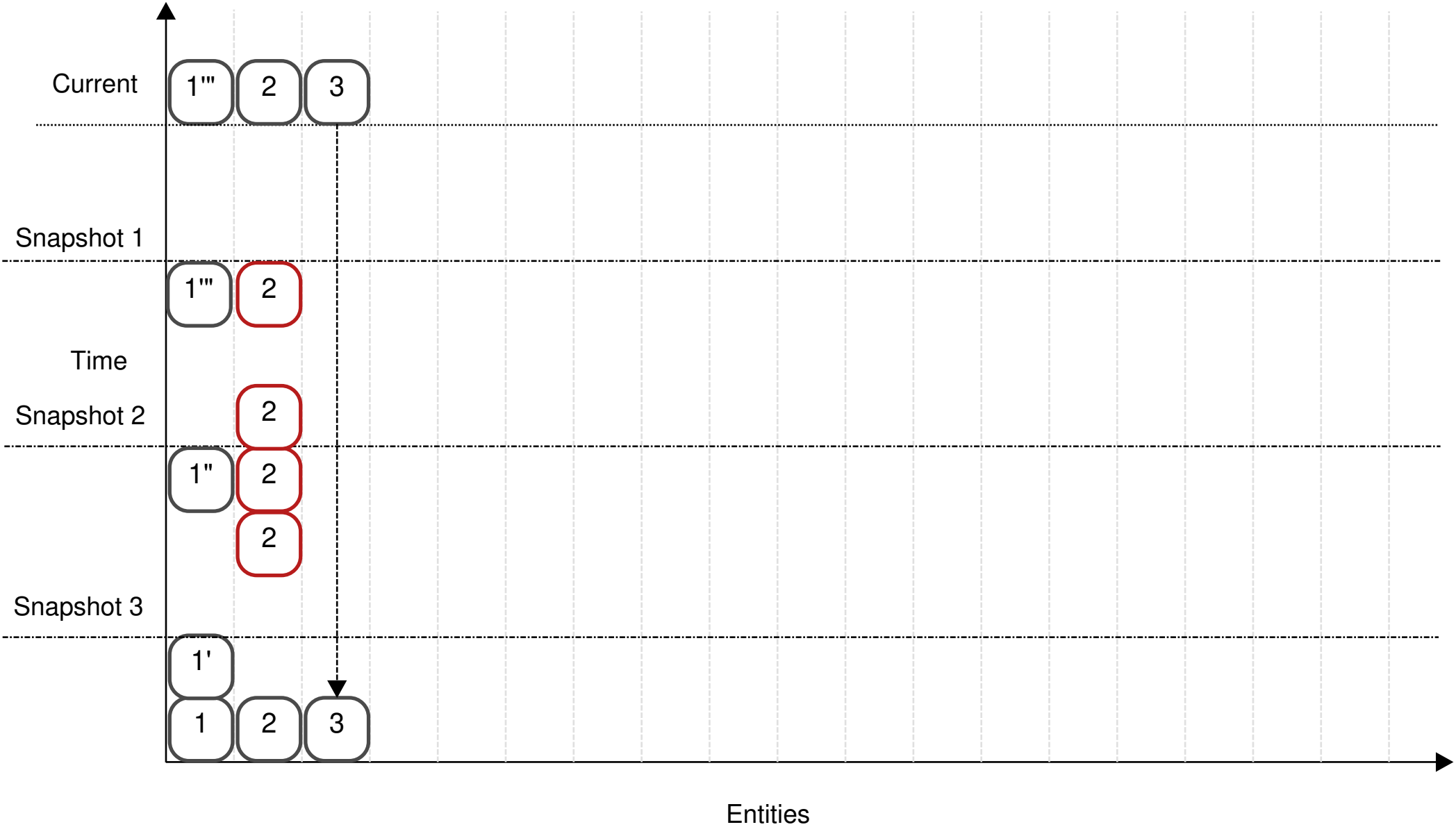
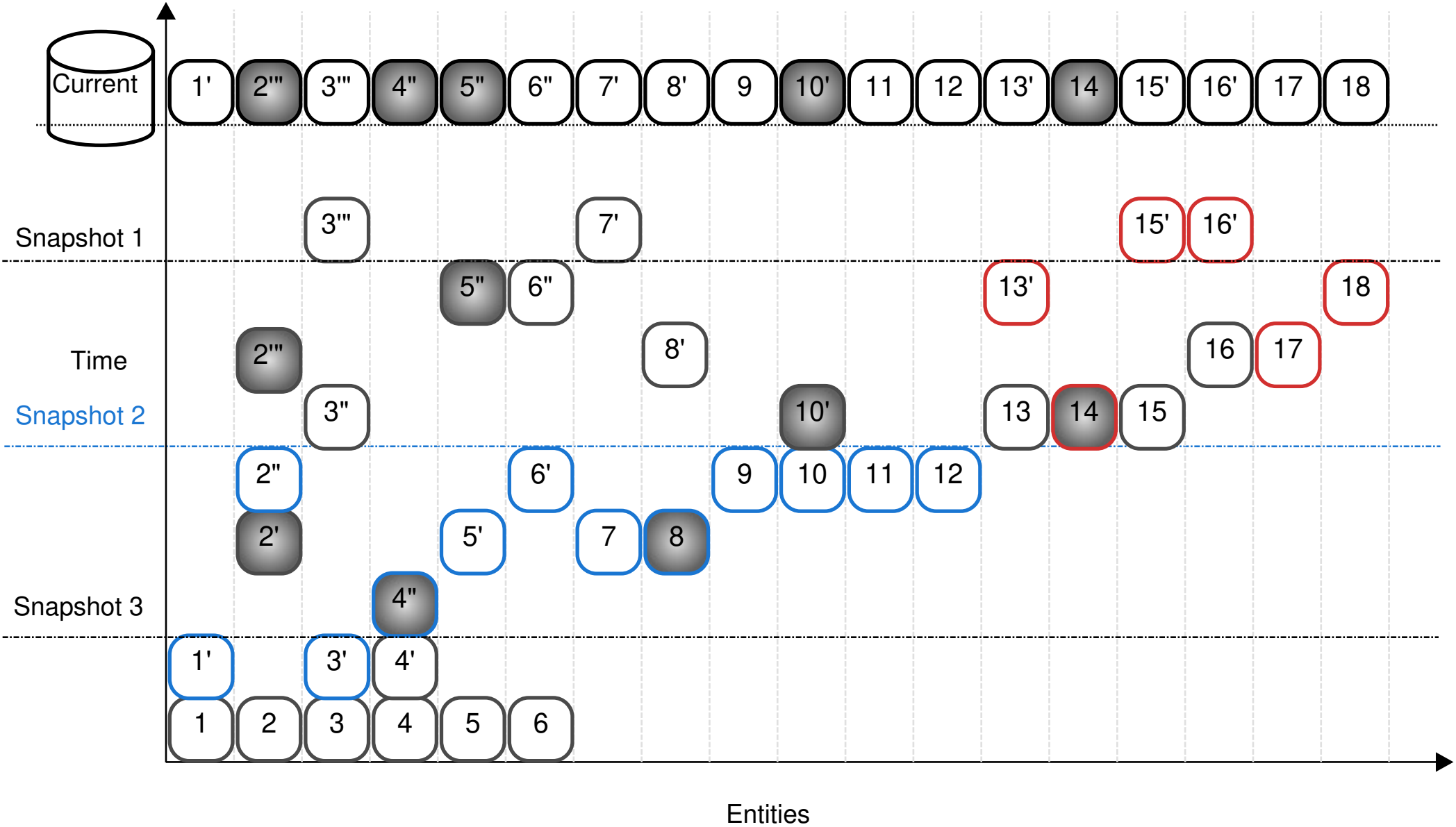**Append only - Duplicates 3**
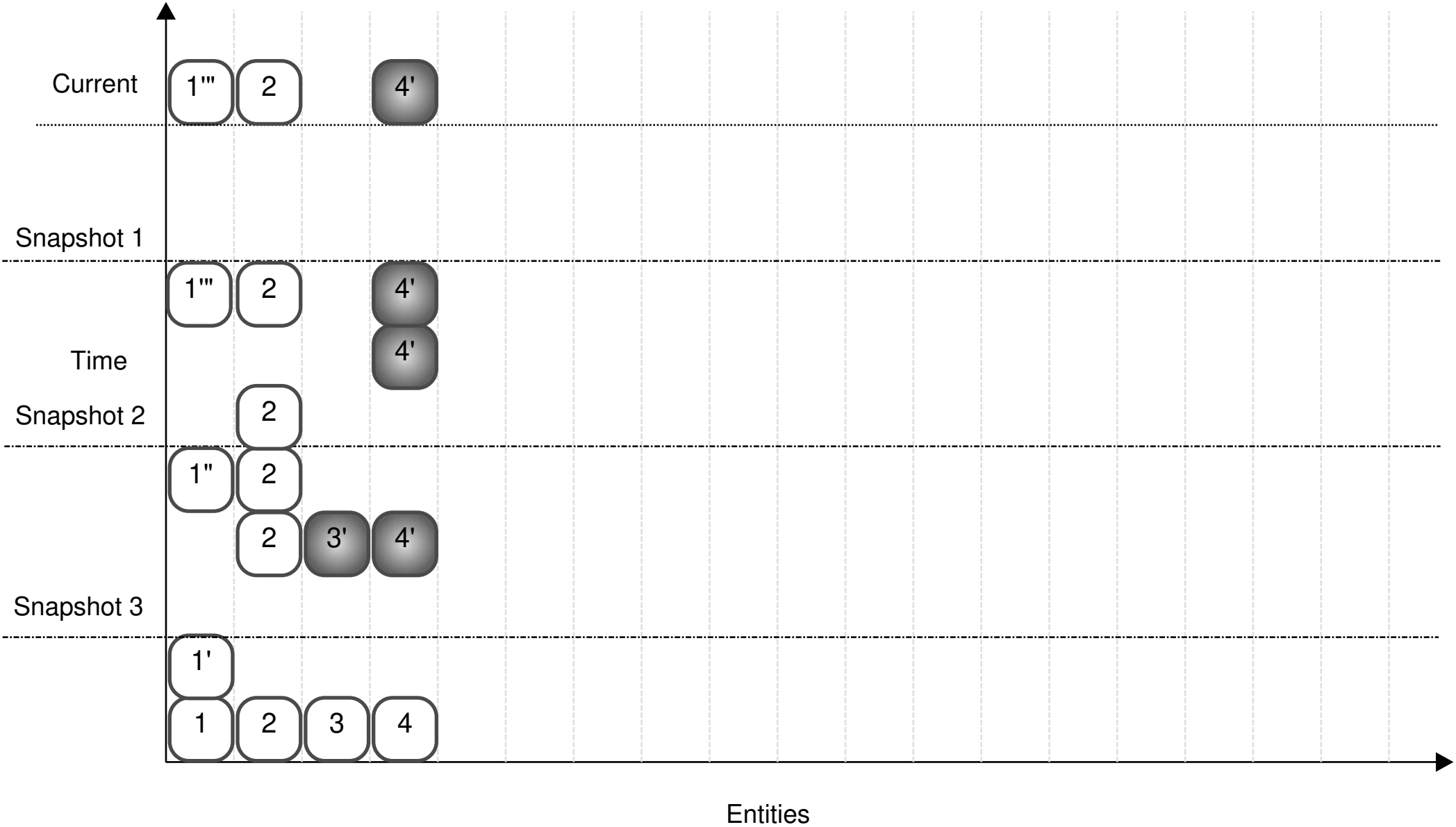
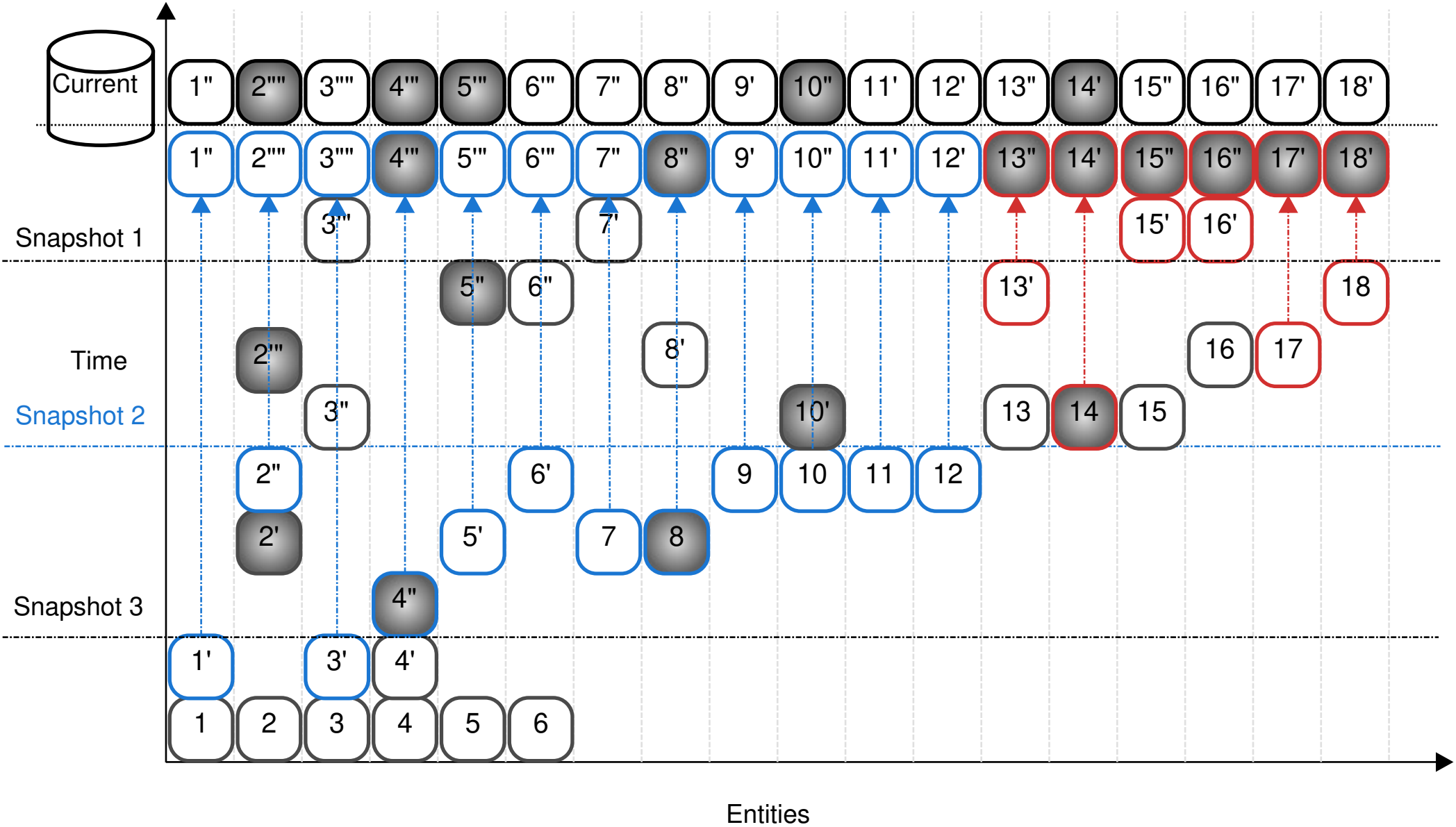**Append only - Duplicates 4**

Append only - Rollback

Current

Snapshot 1

Time

Snapshot 2

**Rolling
Back**

Entities

Append only - Roll back

Current

Snapshot 1

Time

Snapshot 2

Snapshot 3

Entities
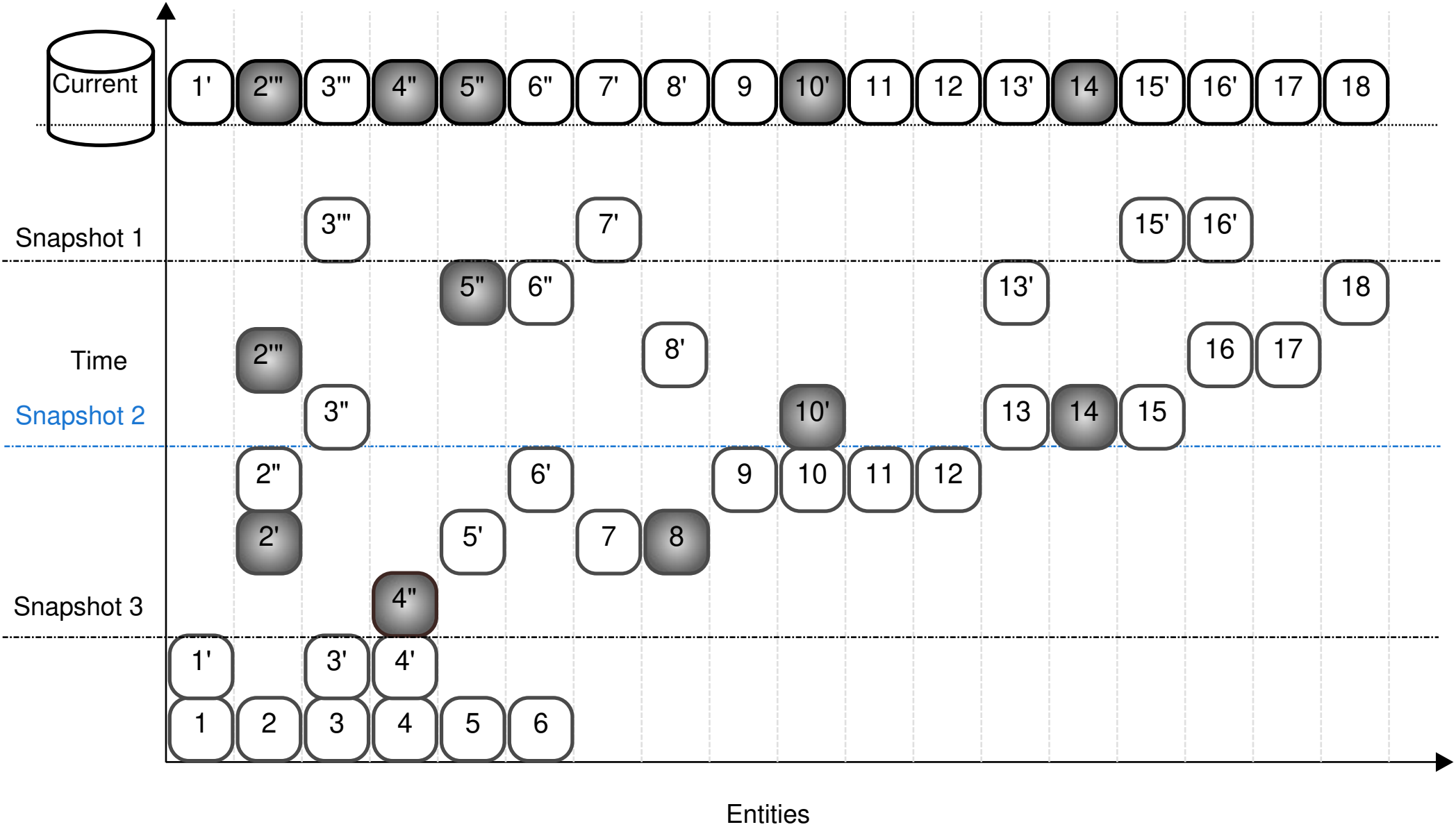
Append only - Roll back 1.1

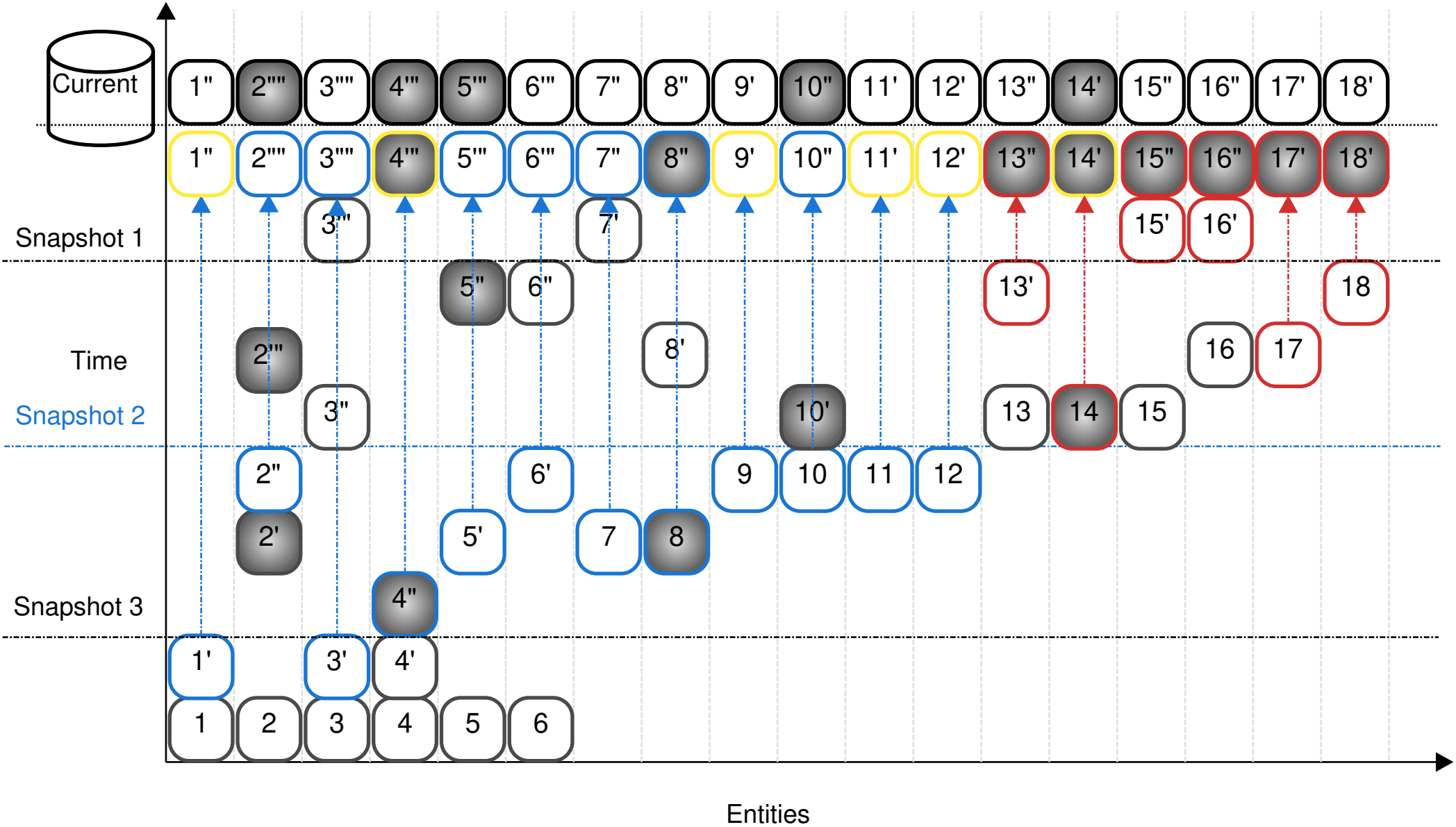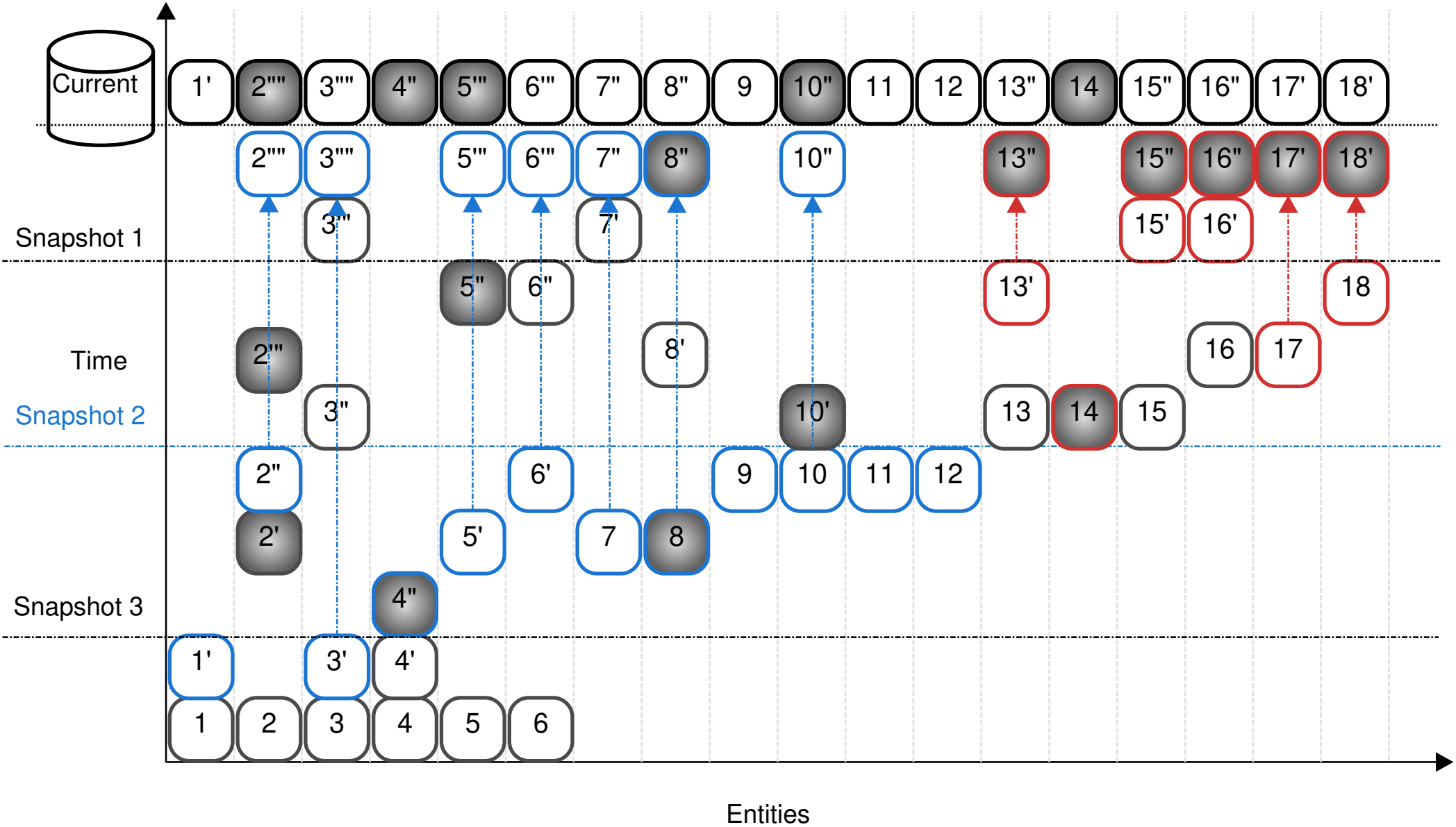**Append only - Roll back 1.2**

Append only - Roll back 1.3

Append only - Roll back 1.4

Append only - Roll back 2.1