

### 28.5.4 ComposeWriteEventBytes ( *execution*, *byteIndex*, *Ws* )

The abstract operation ComposeWriteEventBytes takes arguments *execution* (a candidate execution), *byteIndex* (a non-negative integer), and *Ws* (a List of WriteSharedMemory or ReadModifyWriteSharedMemory events). It performs the following steps when called:

1. Let *byteLocation* be *byteIndex*.
2. Let *bytesRead* be a new empty List.
3. For each element *W* of *Ws*, do
  - a. Assert: *W* has *byteLocation* in its range.
  - b. Let *payloadIndex* be *byteLocation* - *W*.[[ByteIndex]].
  - c. If *W* is a WriteSharedMemory event, then
    - i. Let *byte* be *W*.[[Payload]][*payloadIndex*].
  - d. Else,
    - i. Assert: *W* is a ReadModifyWriteSharedMemory event.
    - ii. Let *bytes* be ValueOfReadEvent(*execution*, *W*).
    - iii. Let *bytesModified* be *W*.[[ModifyOp]](*bytes*, *W*.[[Payload]]).
    - iv. Let *byte* be *bytesModified*[*payloadIndex*].
  - e. Append *byte* to *bytesRead*.
  - f. Set *byteLocation* to *byteLocation* + 1.
4. Return *bytesRead*.