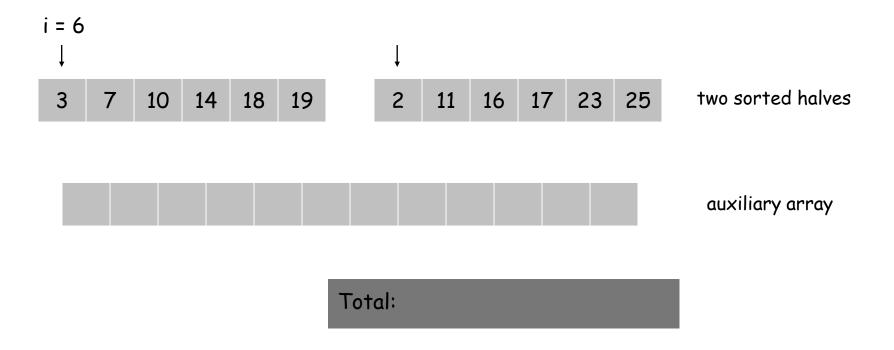
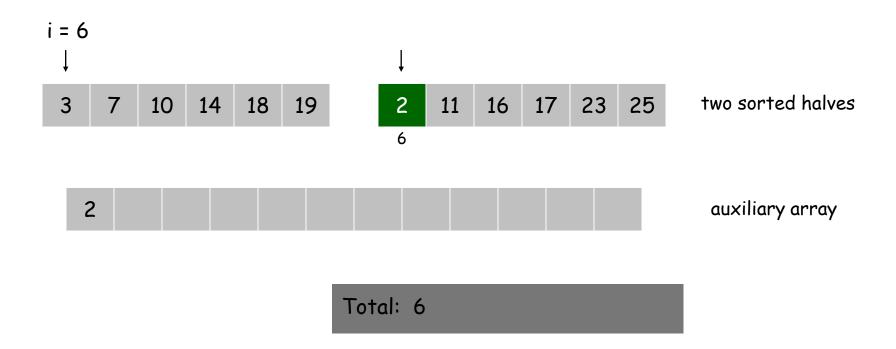
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.

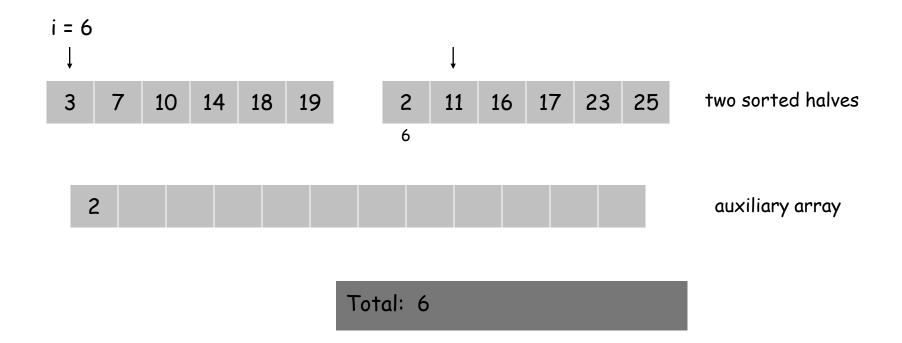


1

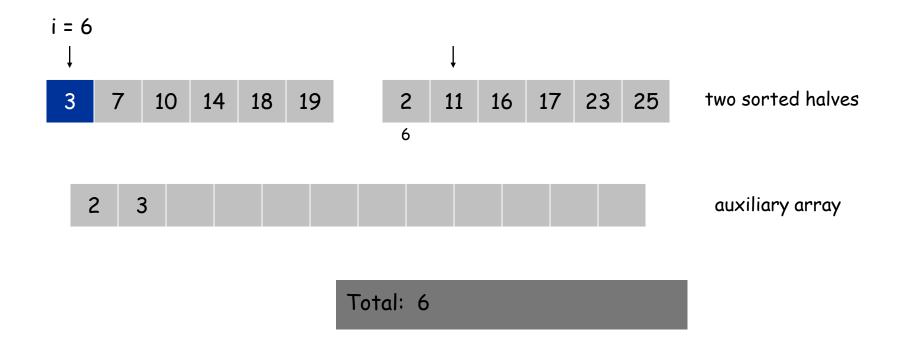
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



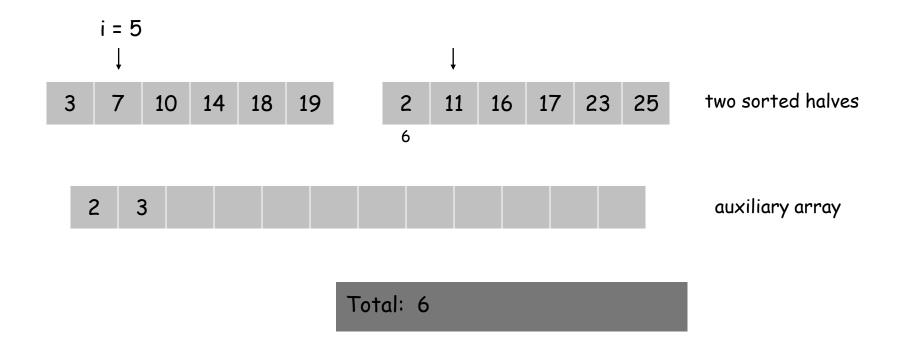
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



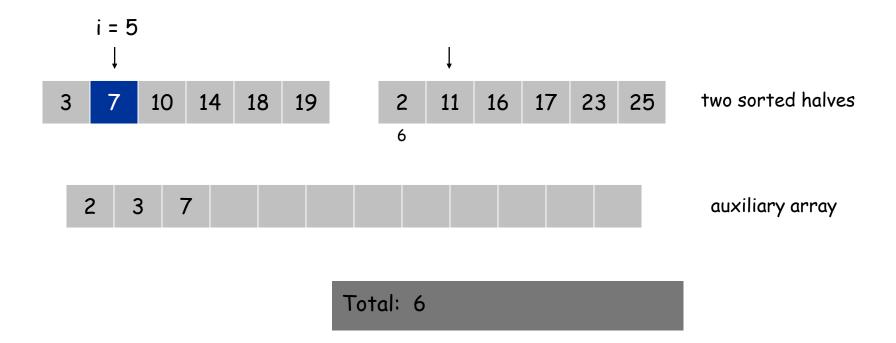
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.

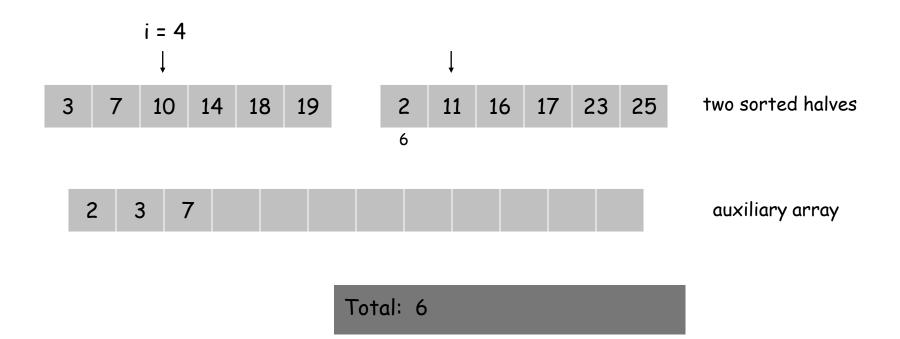


- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



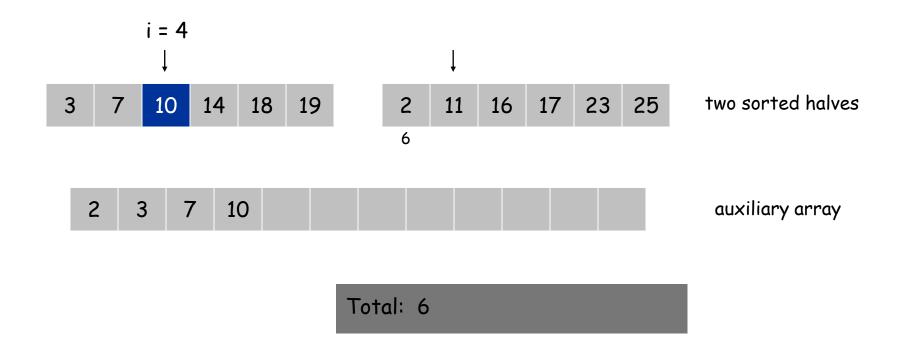
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



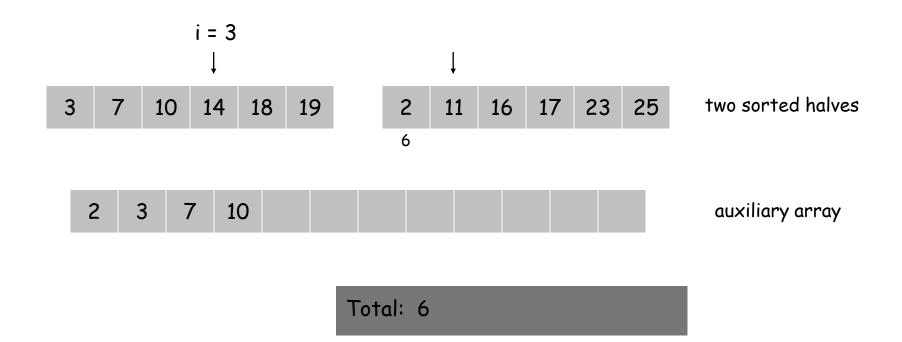
7

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



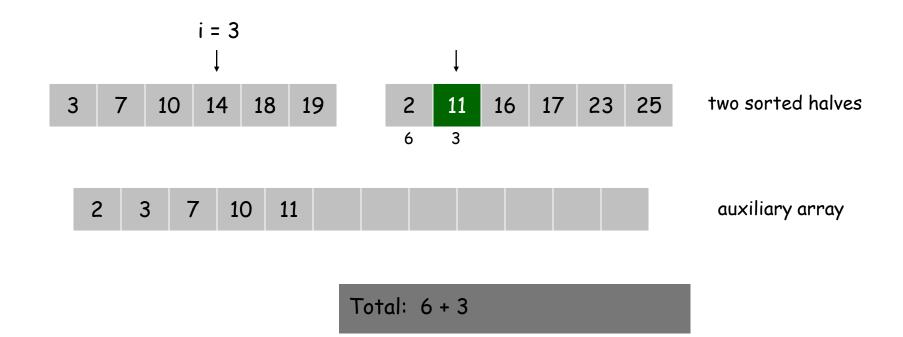
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.

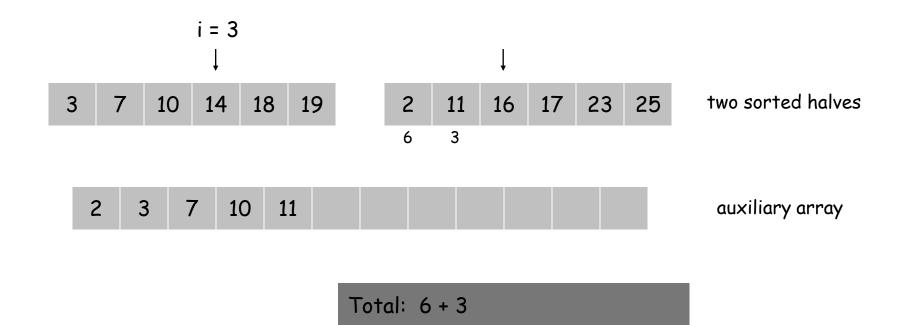


9

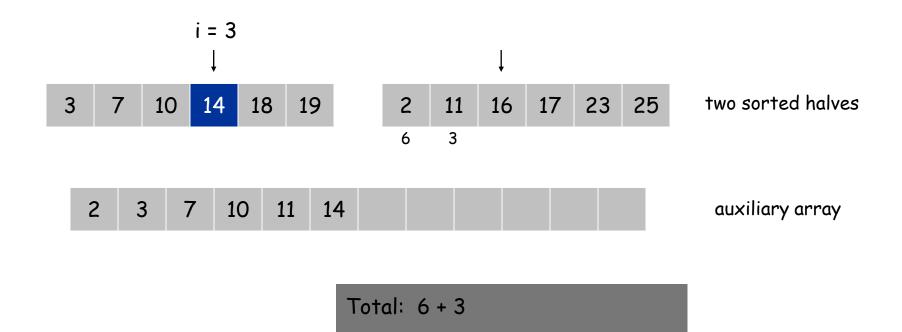
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



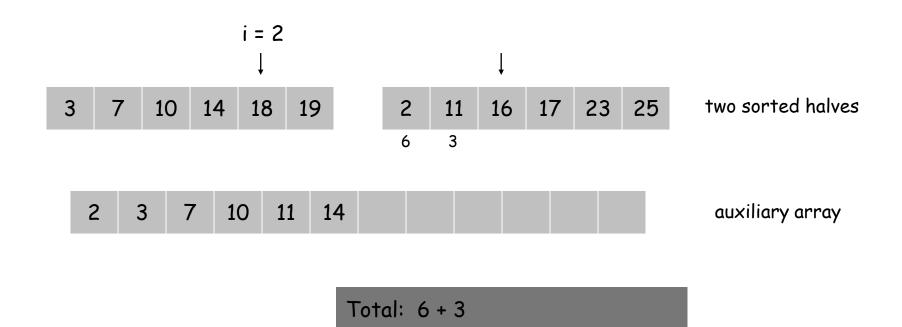
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



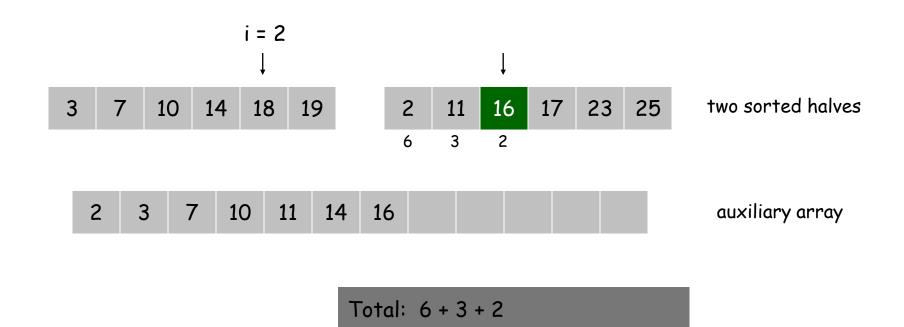
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.

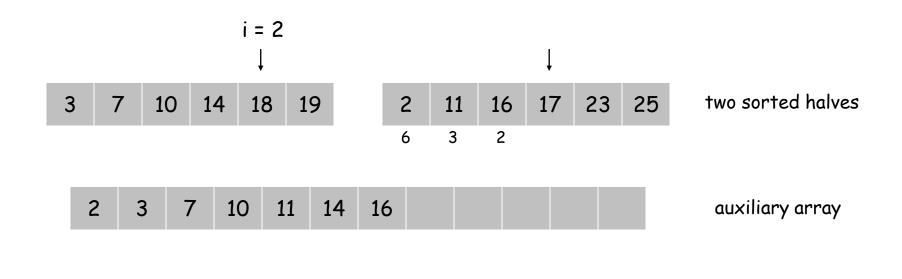


- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.

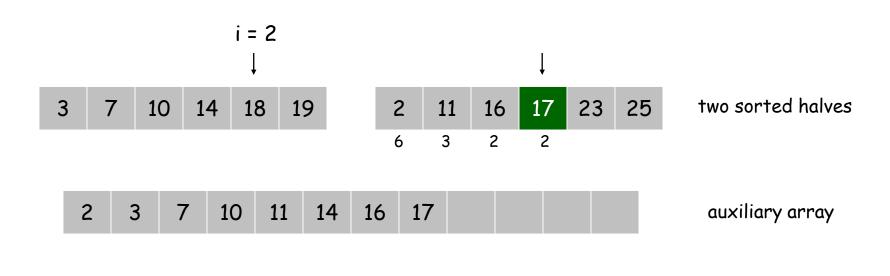


Total: 6 + 3 + 2

15

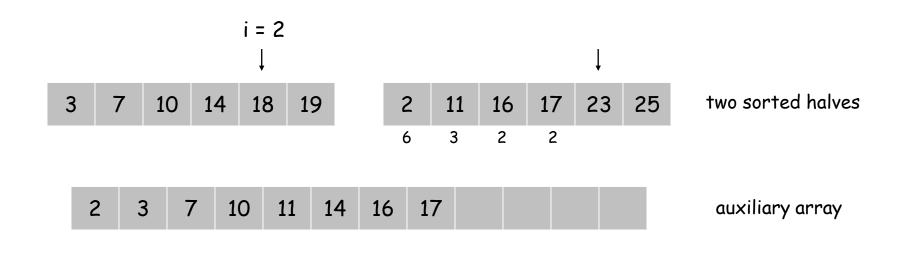
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



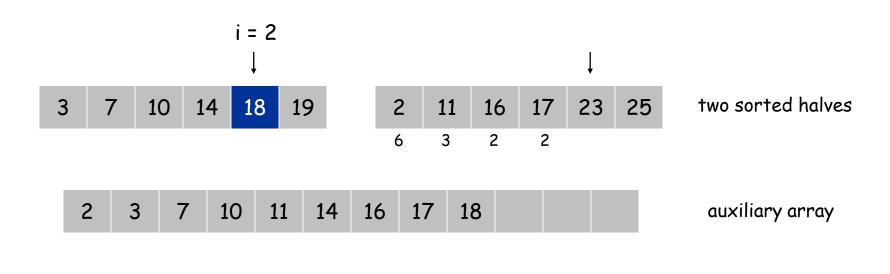
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



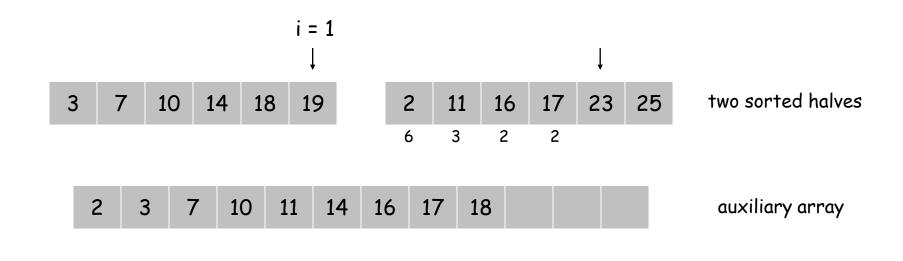
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



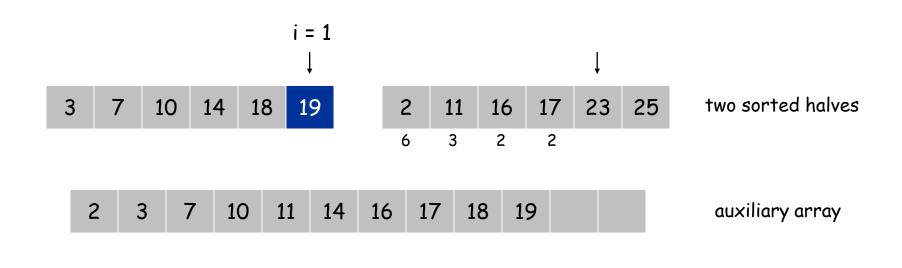
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



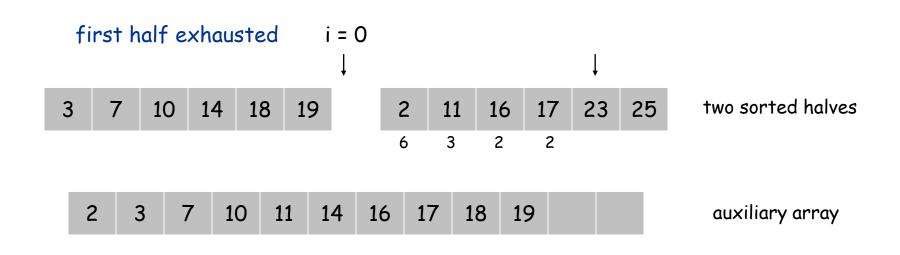
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



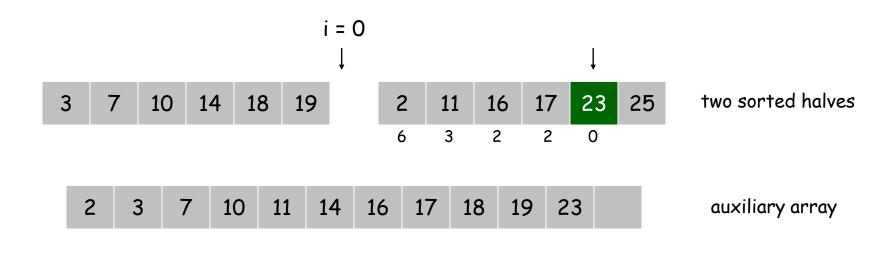
Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Merge and count step.

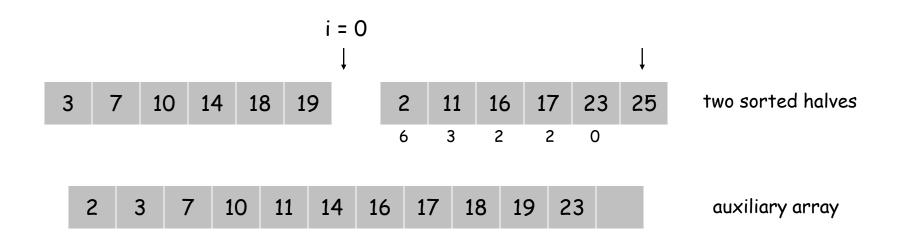
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0

Merge and count step.

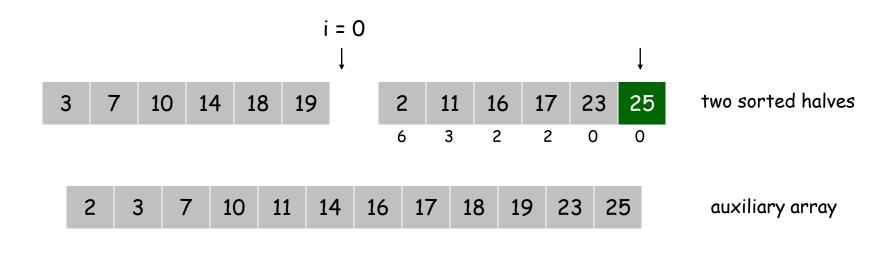
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0

Merge and count step.

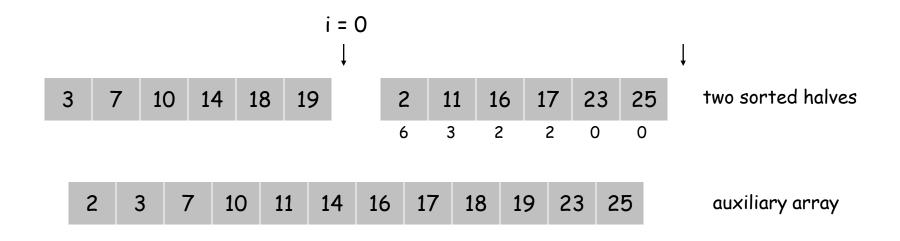
- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0 + 0

Merge and count step.

- Given two sorted halves, count number of inversions where \mathbf{a}_i and \mathbf{a}_j are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0 + 0 = 13