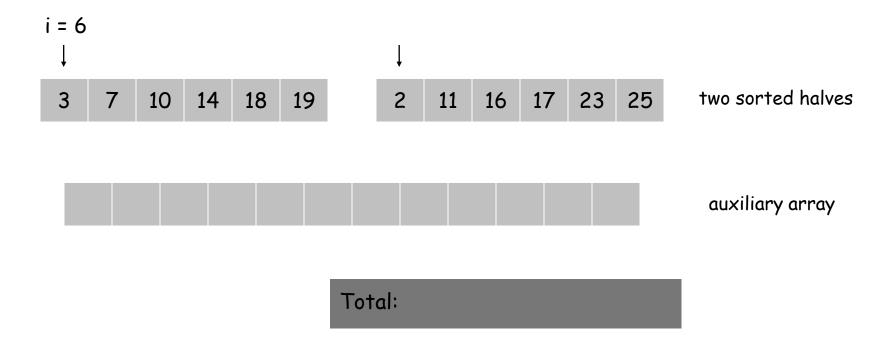
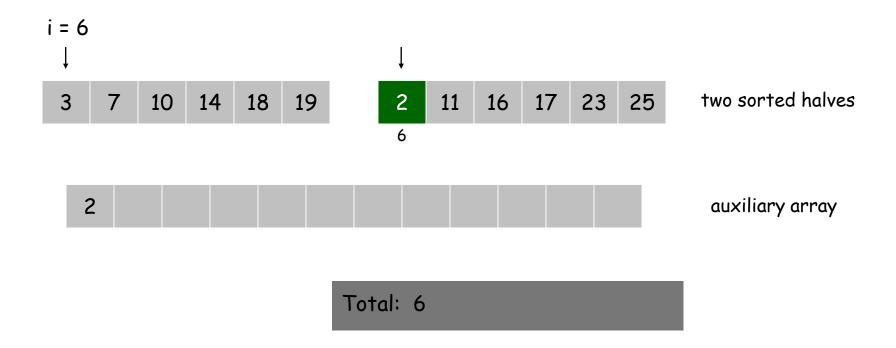
Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

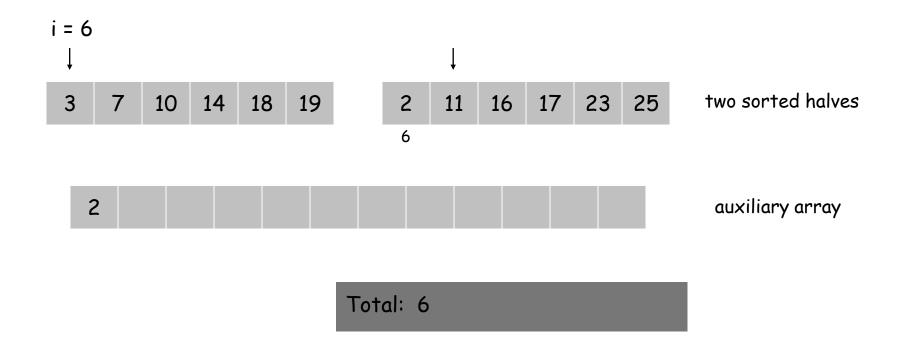


1

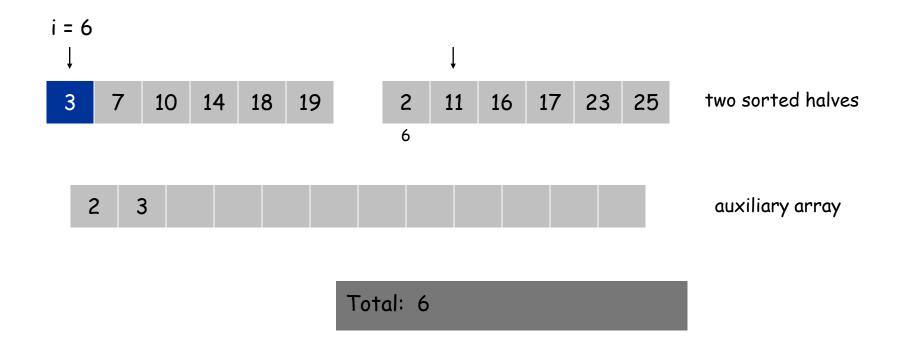
- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



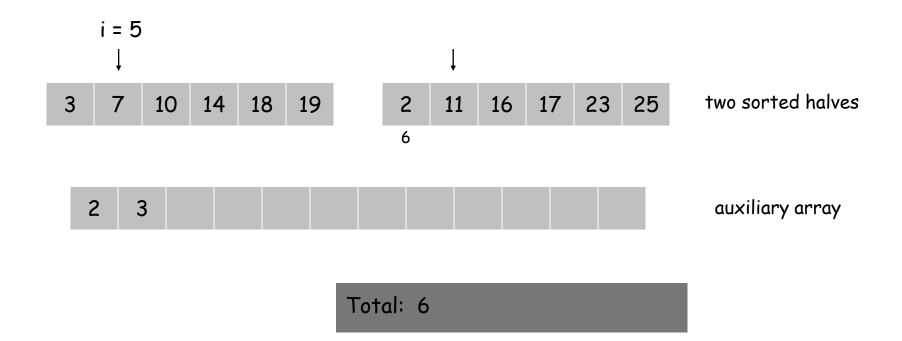
- $_{\mbox{\tiny l}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



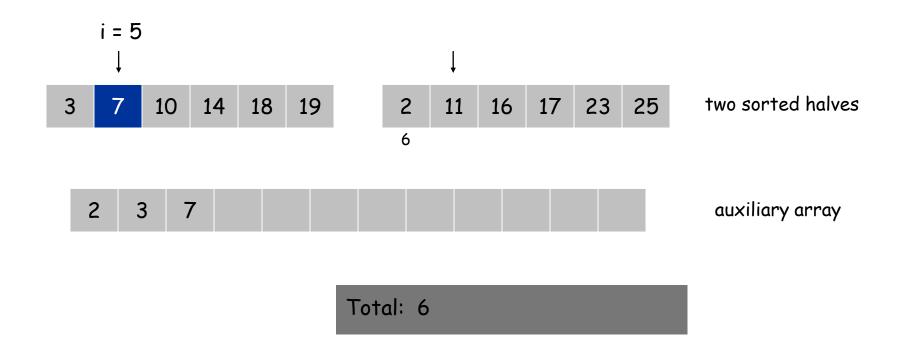
- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



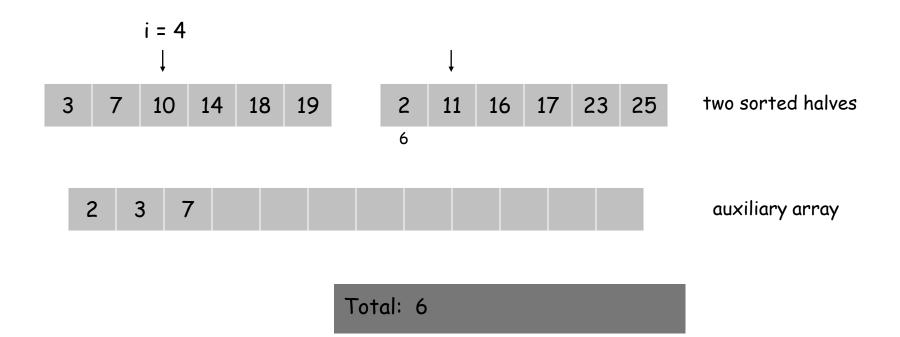
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



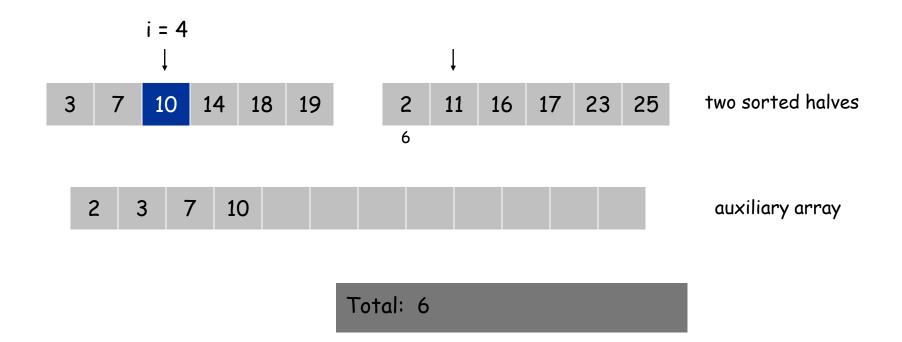
- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

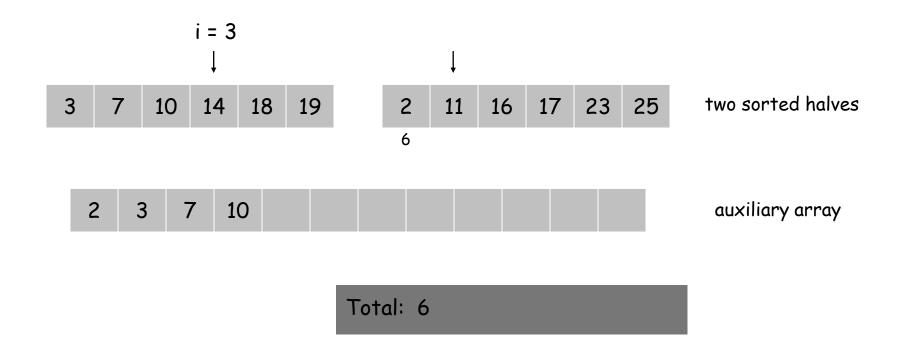


- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



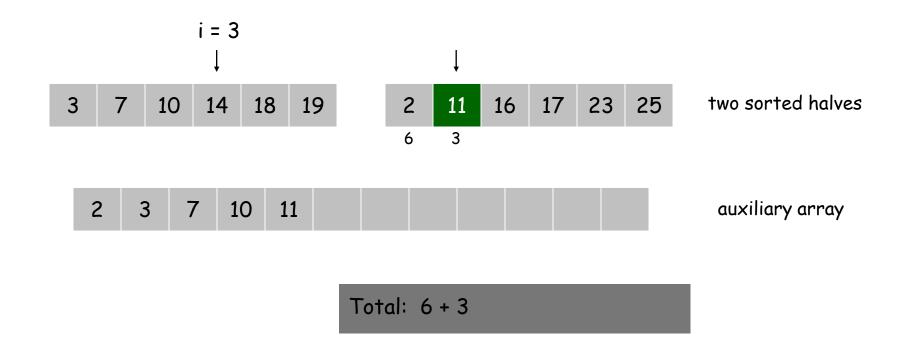
Merge and count step.

- $_{\mbox{\tiny I}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

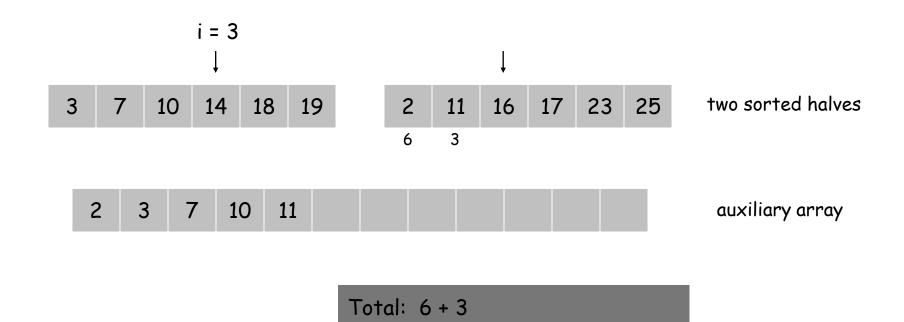


9

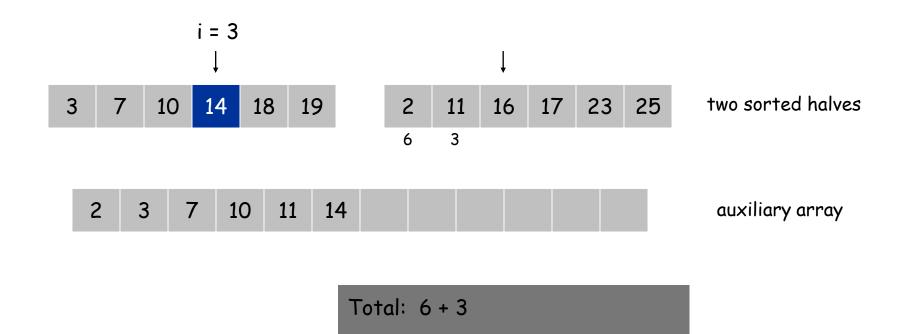
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



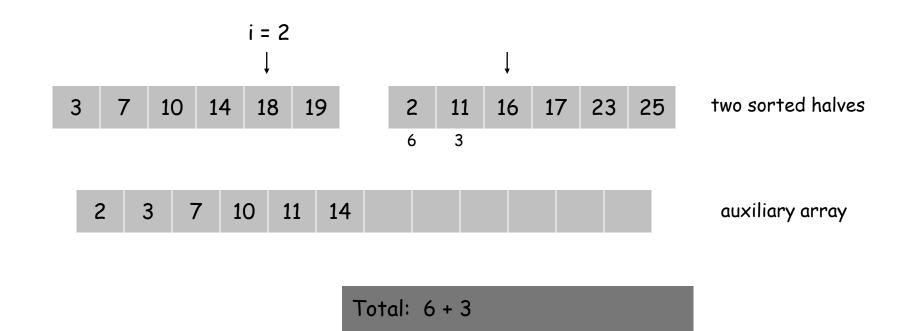
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



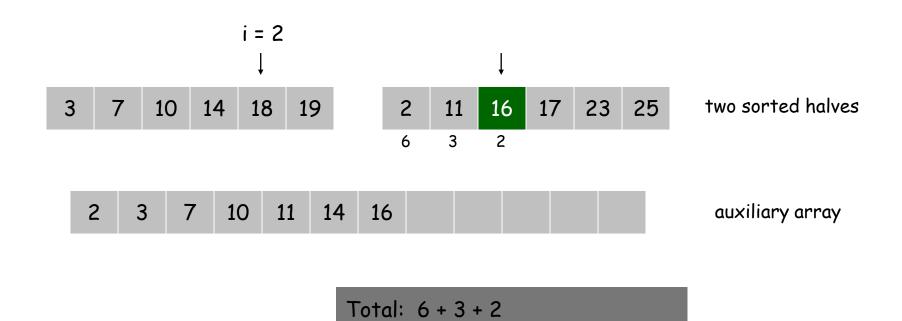
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

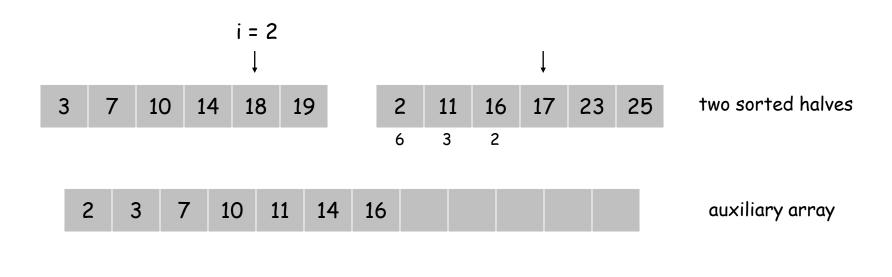


- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Merge and count step.

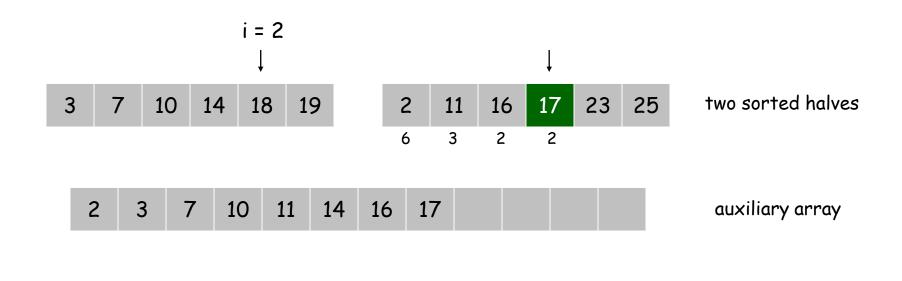
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2

Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

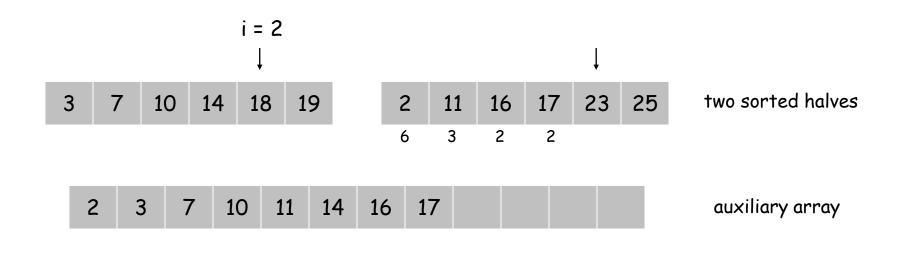


Total: 6 + 3 + 2 + 2

16

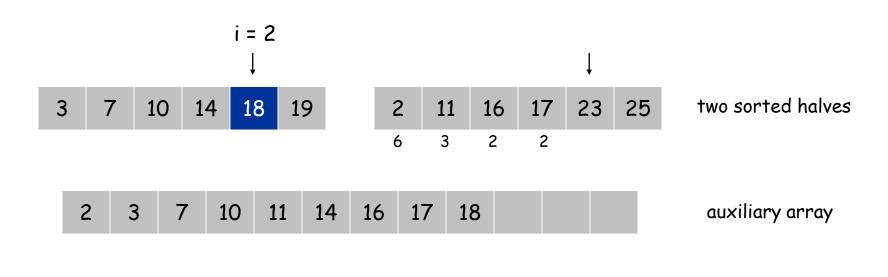
Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



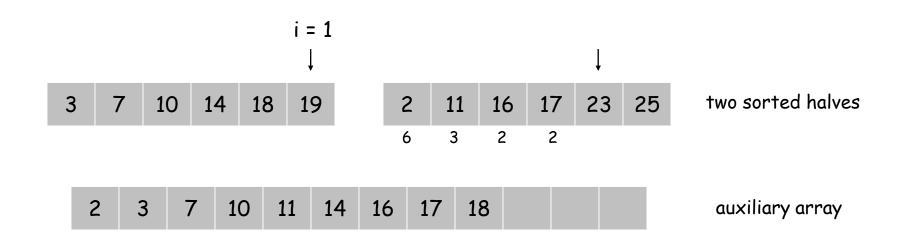
Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



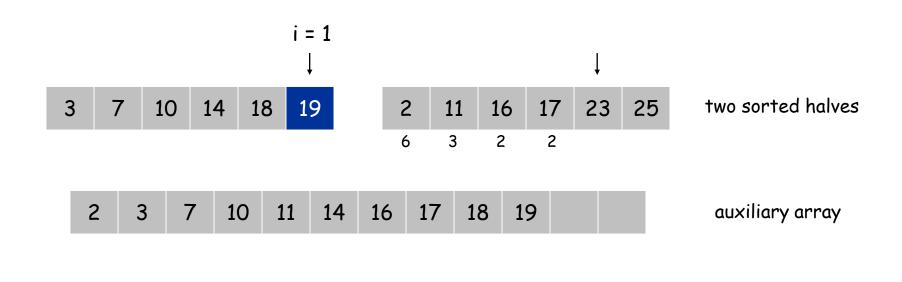
Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.

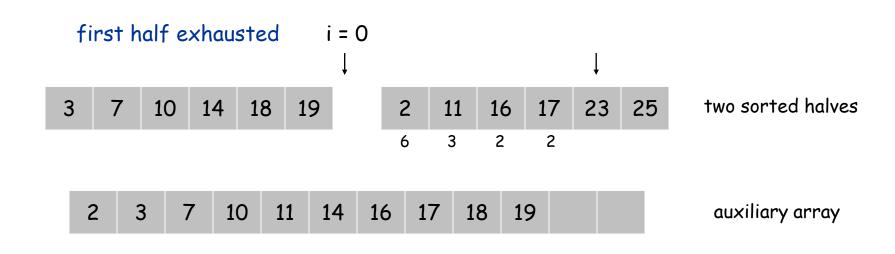


Total: 6 + 3 + 2 + 2

20

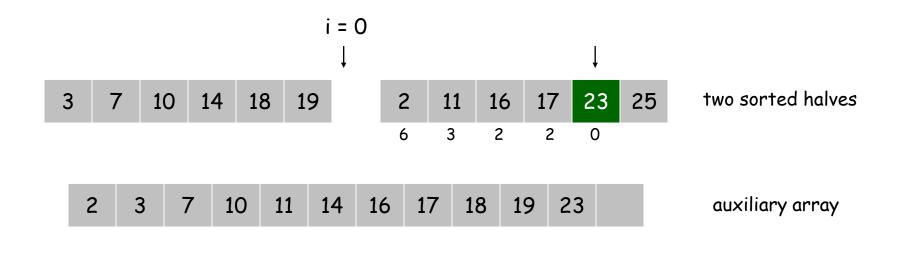
Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Merge and count step.

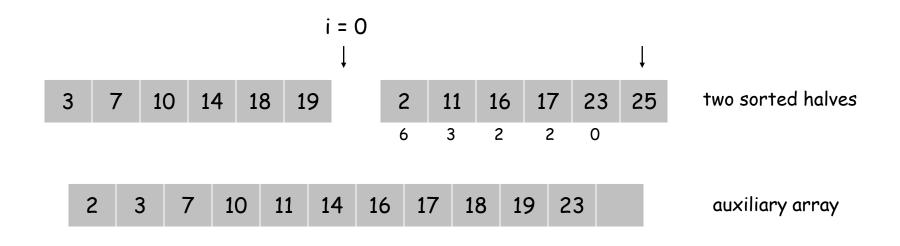
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0

Merge and count step.

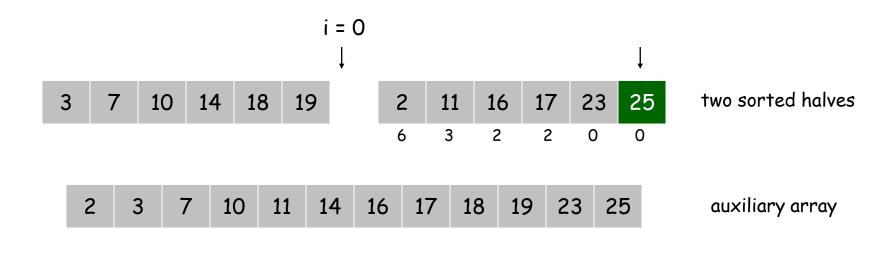
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



Total: 6 + 3 + 2 + 2 + 0

Merge and count step.

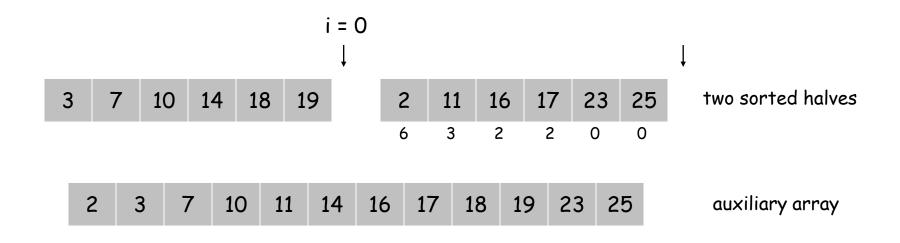
- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



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

Merge and count step.

- $_{\mbox{\tiny \square}}$ Given two sorted halves, count number of inversions where a_{i} and a_{j} are in different halves.
- Combine two sorted halves into sorted whole.



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