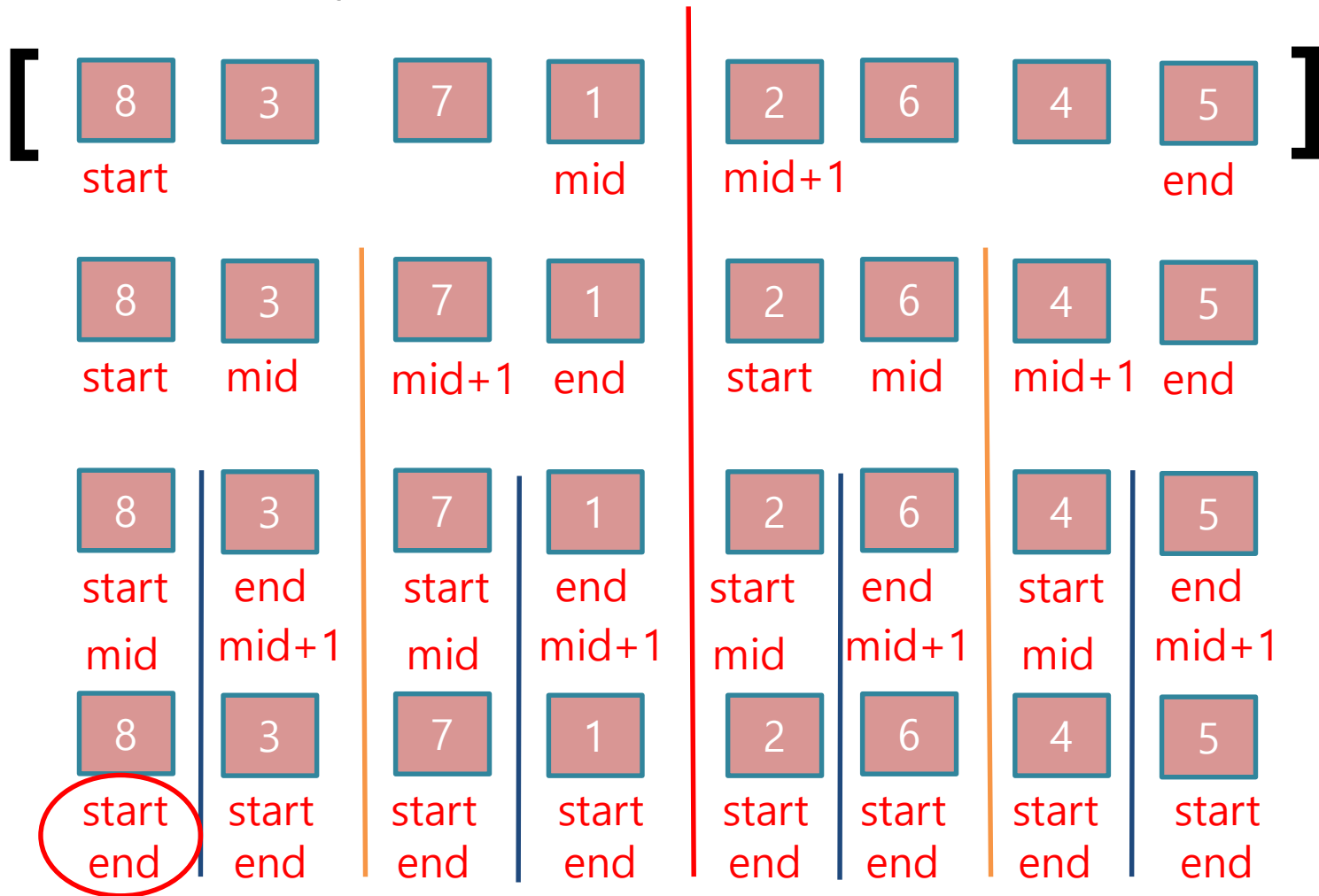


Data structure

mergesort

mergesort

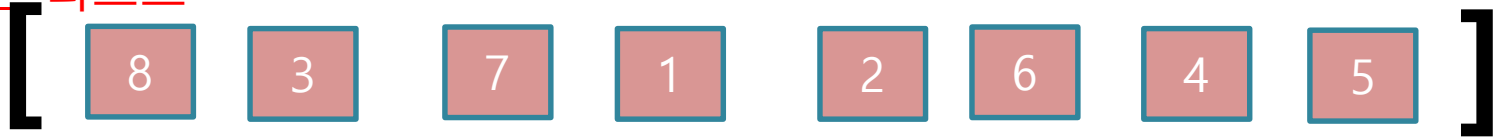
: Divide and Conquer



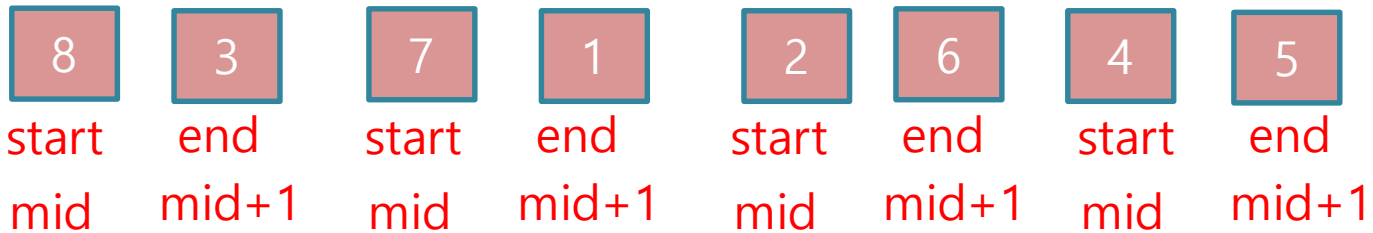
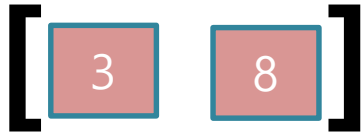
mergesort

: Divide and Conquer

원본 리스트



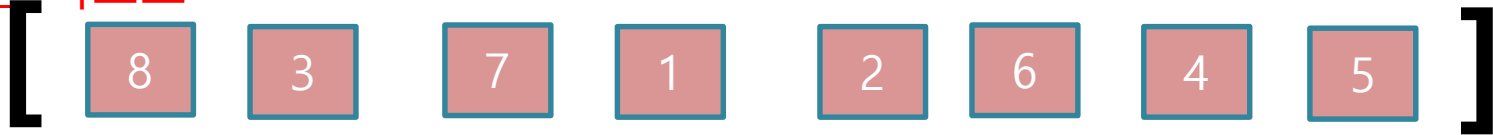
정렬된 임시 리스트



mergesort

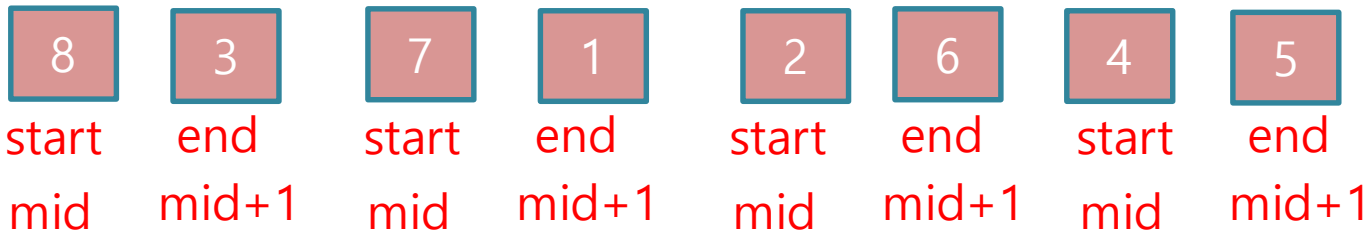
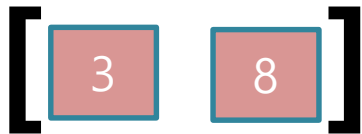
: Divide and Conquer

원본 리스트



업데이트

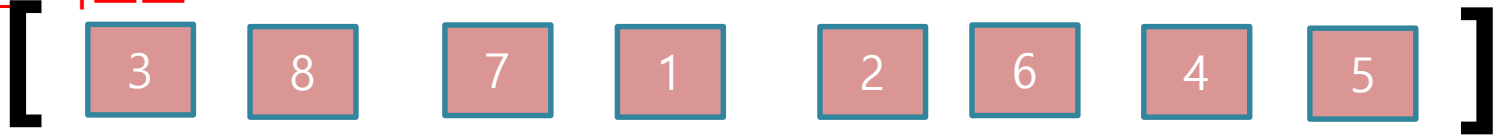
정렬된 임시 리스트



mergesort

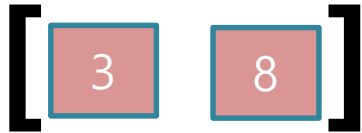
: Divide and Conquer

원본 리스트

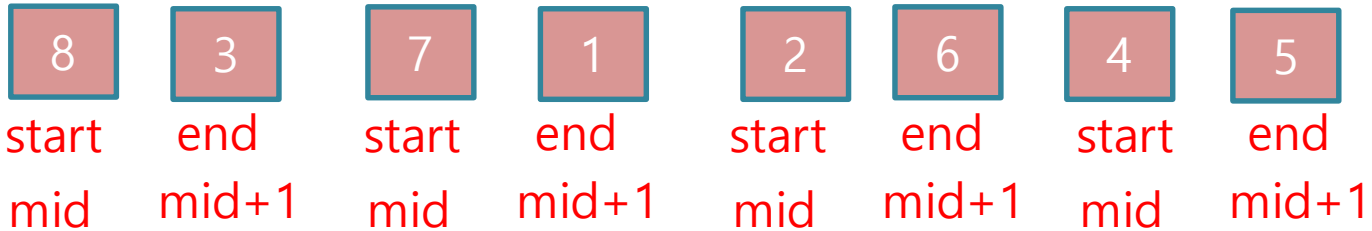


업데이트

정렬된 임시 리스트



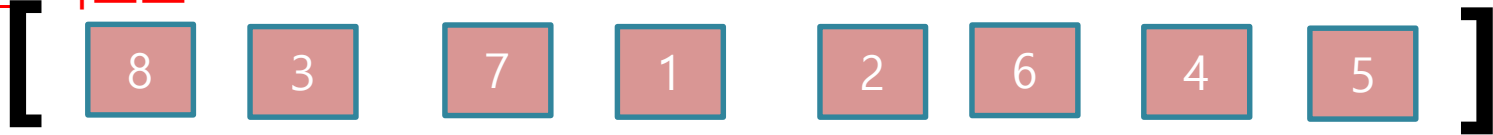
임시 리스트는 업데이트 후 삭제



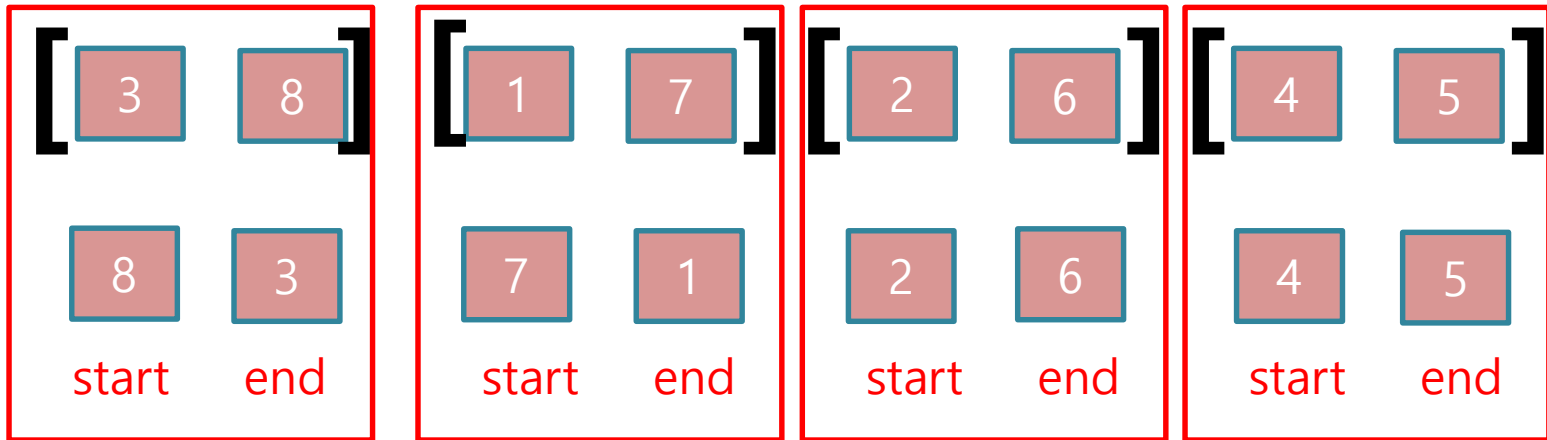
mergesort

: Divide and Conquer

원본 리스트



정렬된 임시 리스트

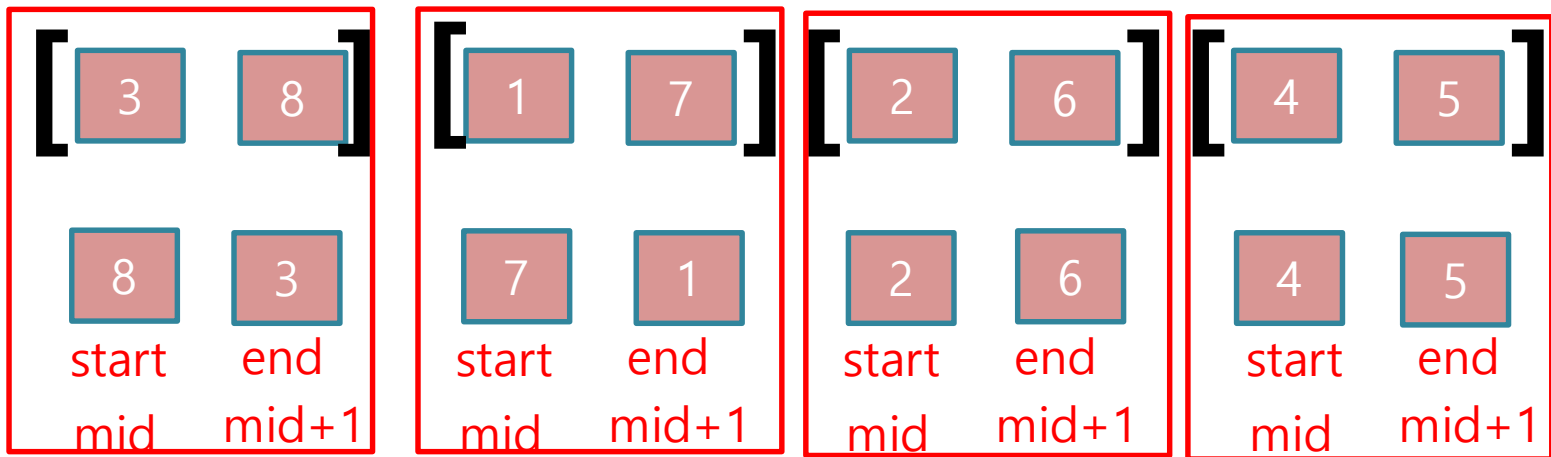
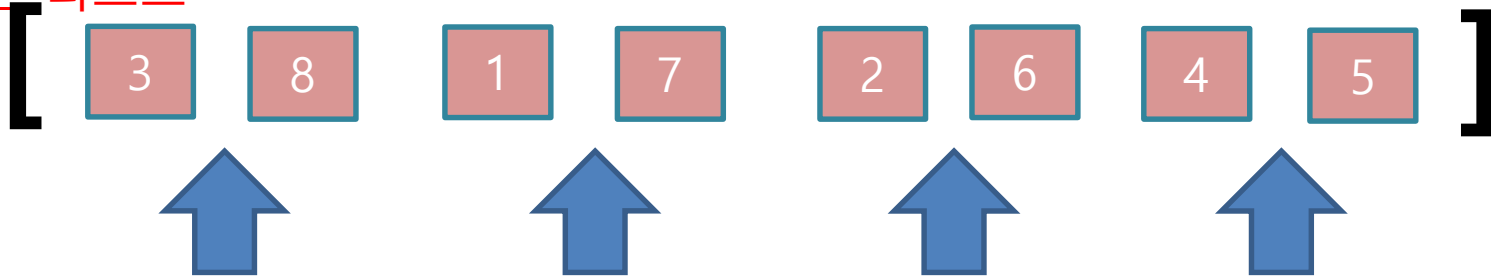


단위 별로 정렬 완료!

mergesort

: Divide and Conquer

원본 리스트



단위 별로 정렬 완료!

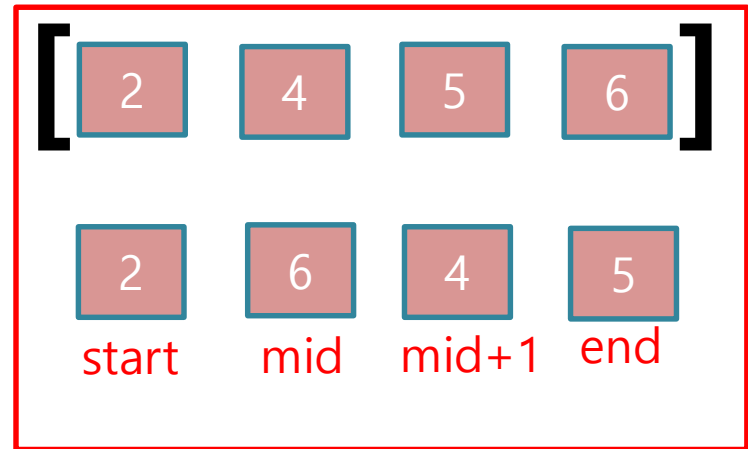
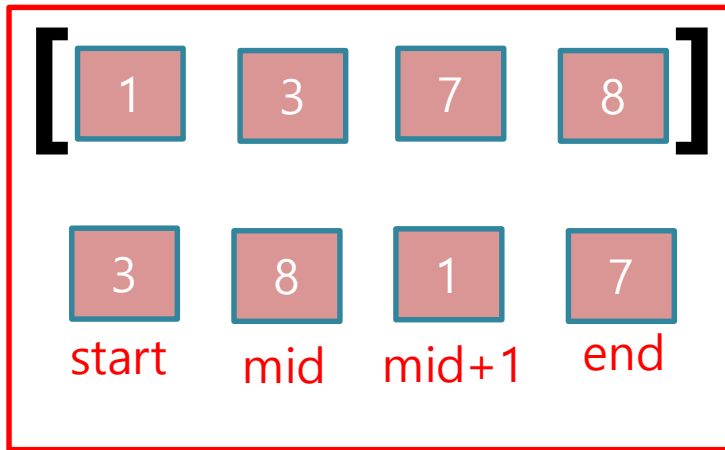
mergesort

: Divide and Conquer

원본 리스트



정렬된 임시 리스트



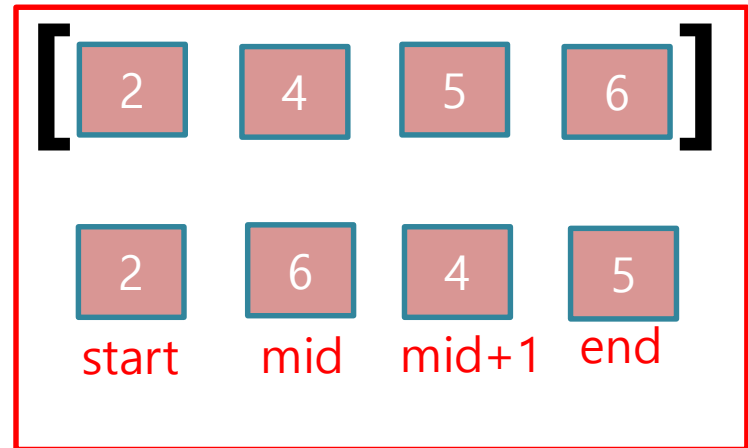
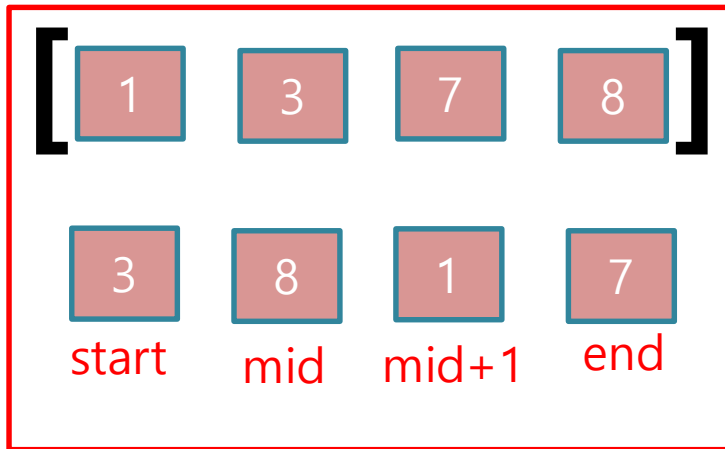
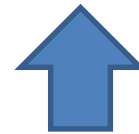
단위 별로 정렬 완료!

mergesort

: Divide and Conquer

업데이트

원본 리스트

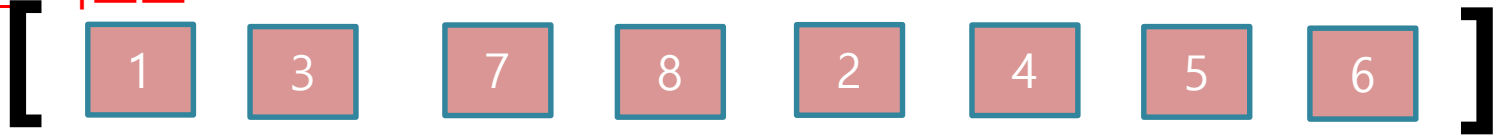


단위 별로 정렬 완료!

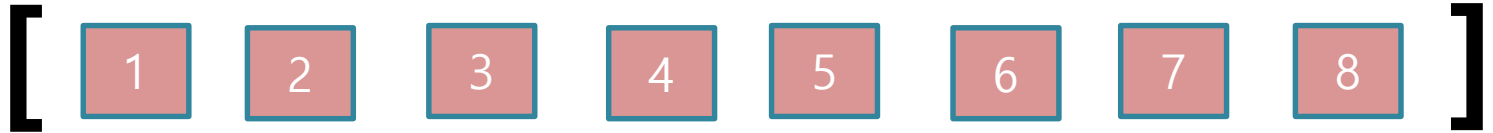
mergesort

: Divide and Conquer

원본 리스트



정렬된 임시 리스트

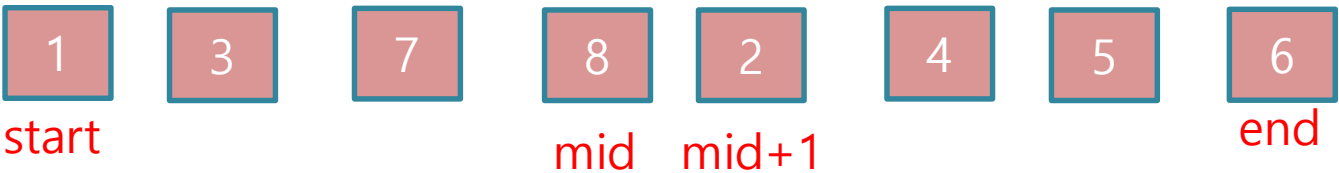
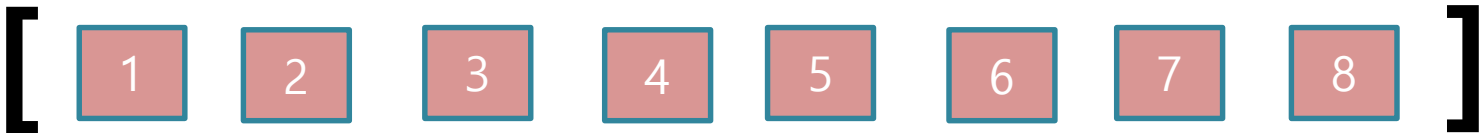
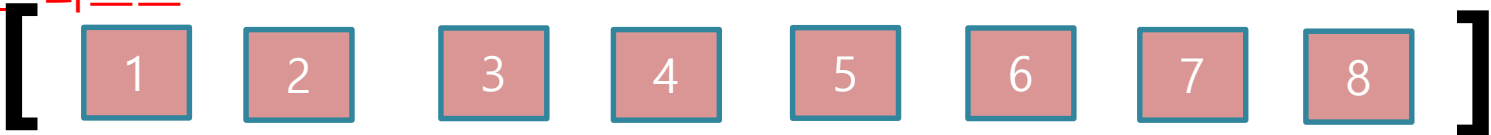


mergesort

: Divide and Conquer

업데이트

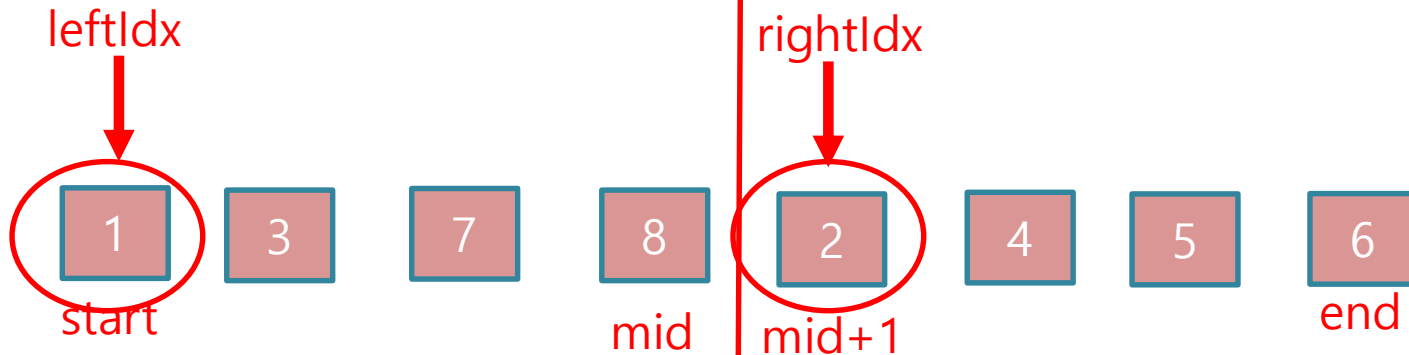
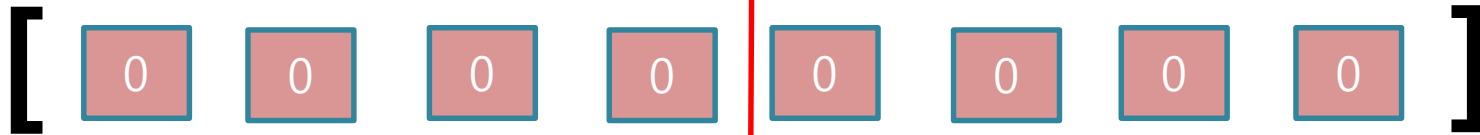
원본 리스트



mergesort

: MergeTwoSection() 함수

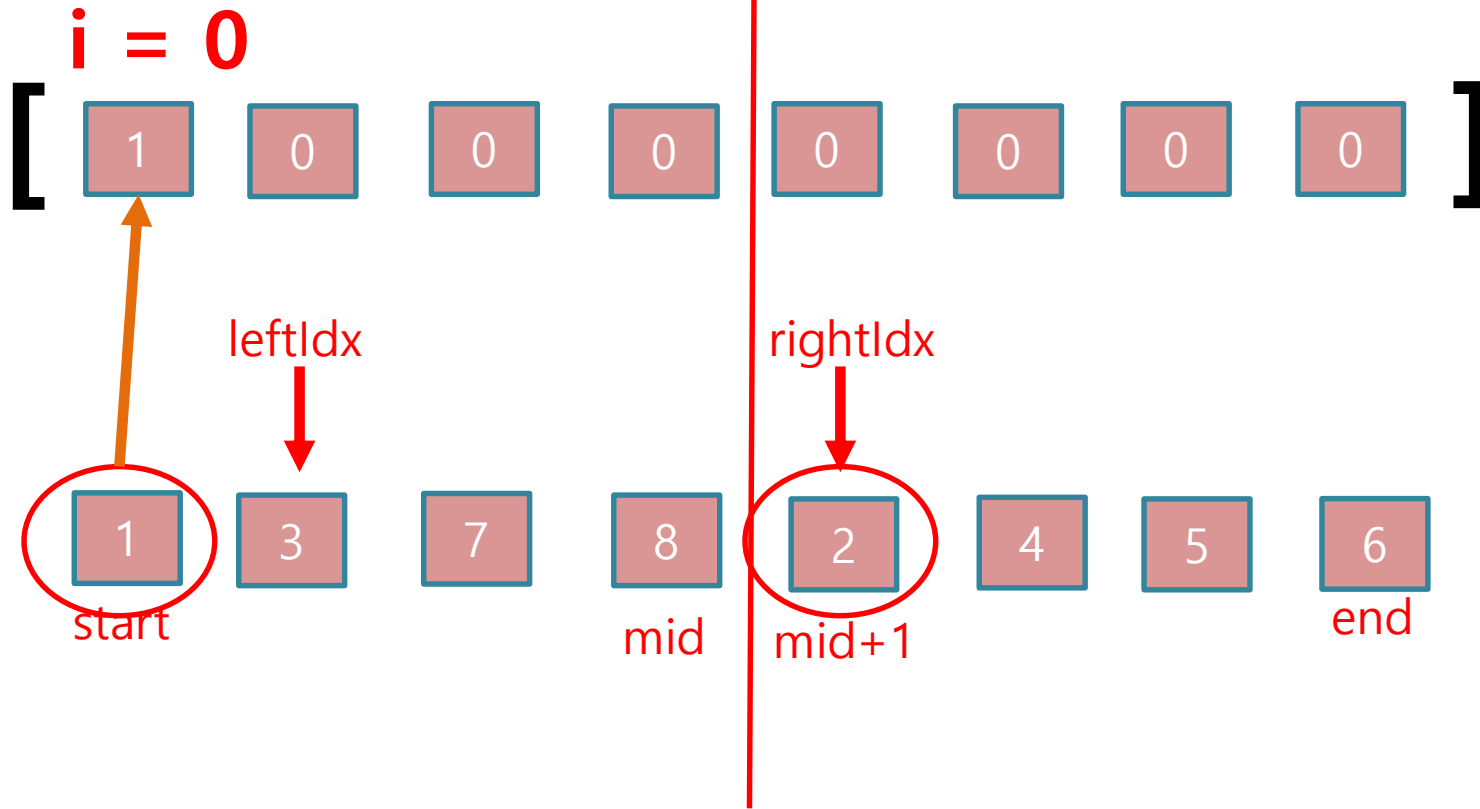
임시 리스트 (0으로 초기화)



두 인덱스의 값을 비교
작은 값부터 임시 리스트에 채운다

mergesort

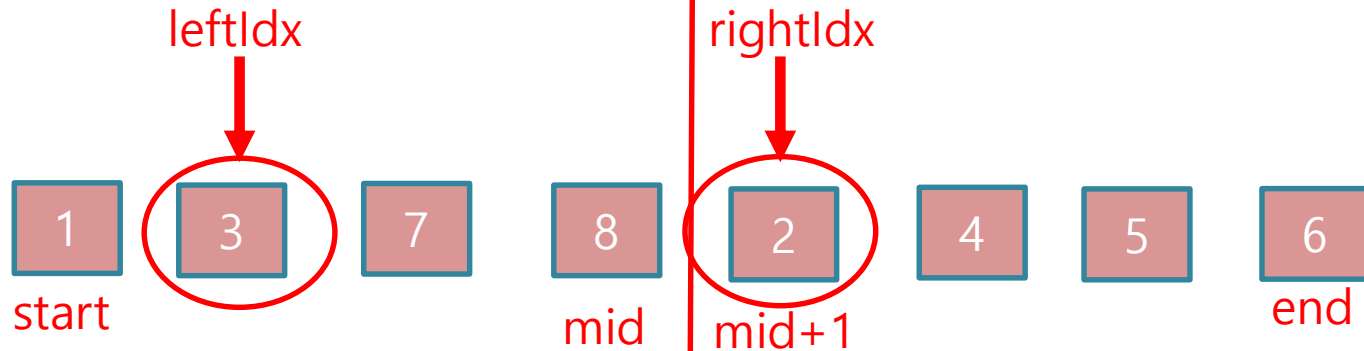
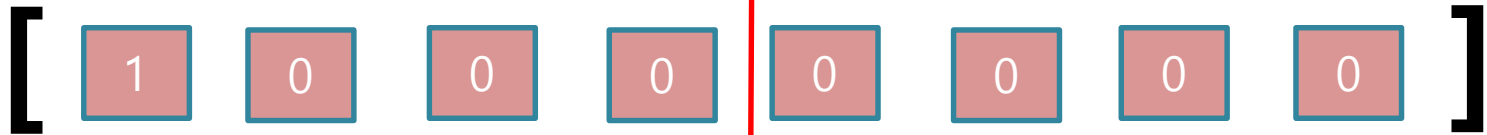
: MergeTwoSection() 함수



작은 값을 임시 리스트에 업데이트 후
LeftIdx 값을 이동

mergesort

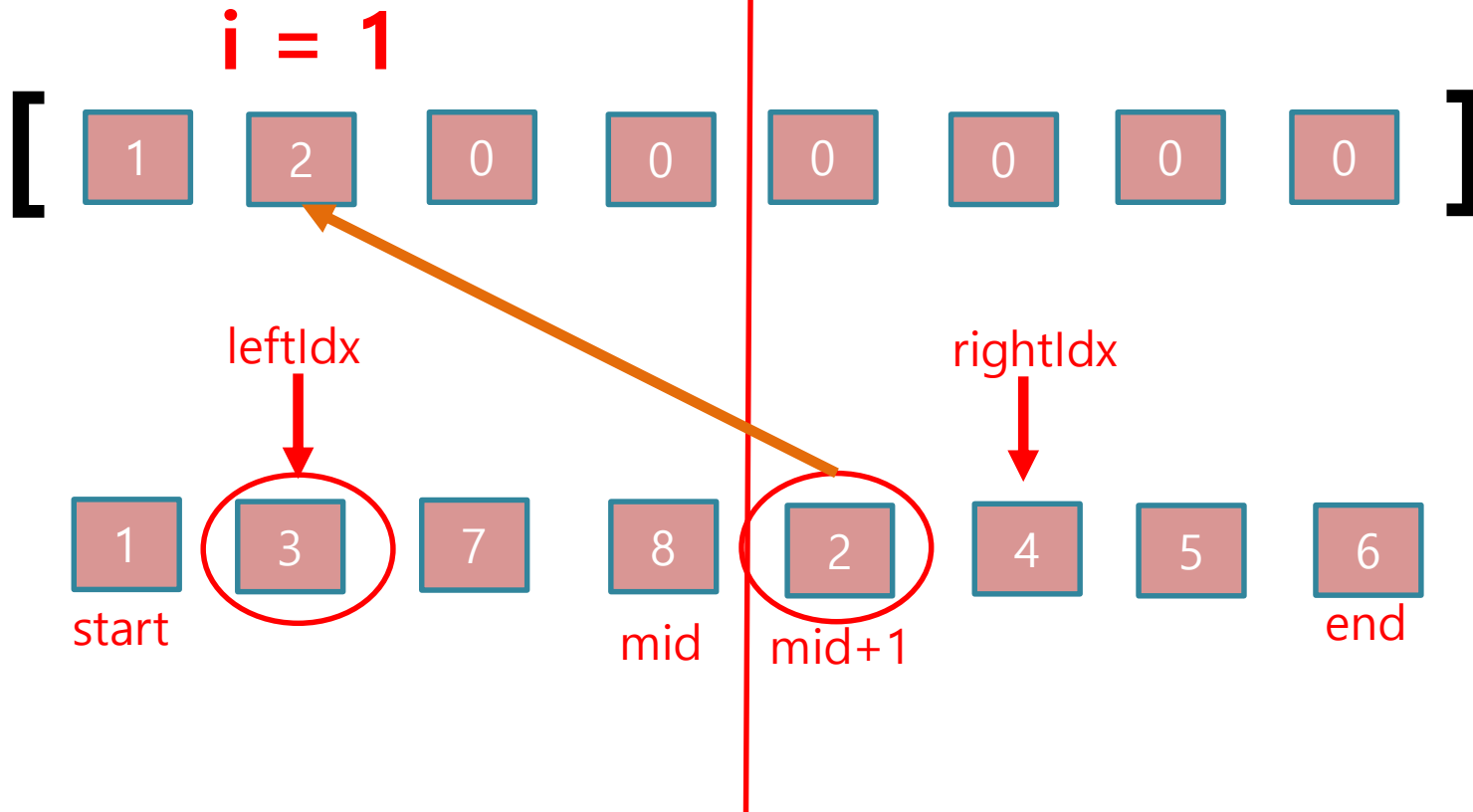
: MergeTwoSection() 함수



두 인덱스의 값을 비교
작은 값부터 임시 리스트에 채운다

mergesort

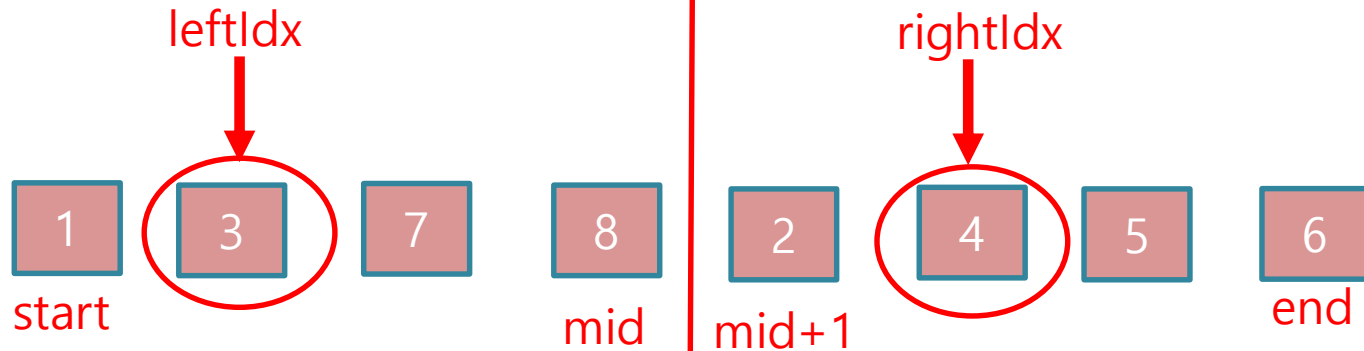
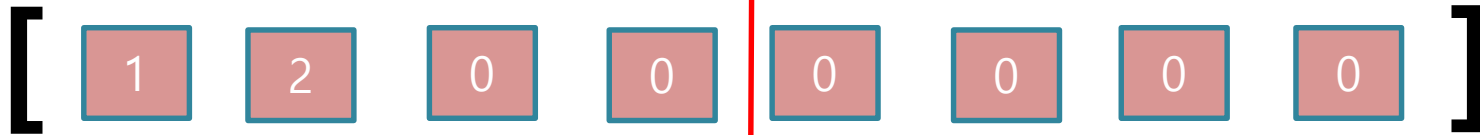
: MergeTwoSection() 함수



작은 값을 임시 리스트에 업데이트 후
rightIdx 값을 이동

mergesort

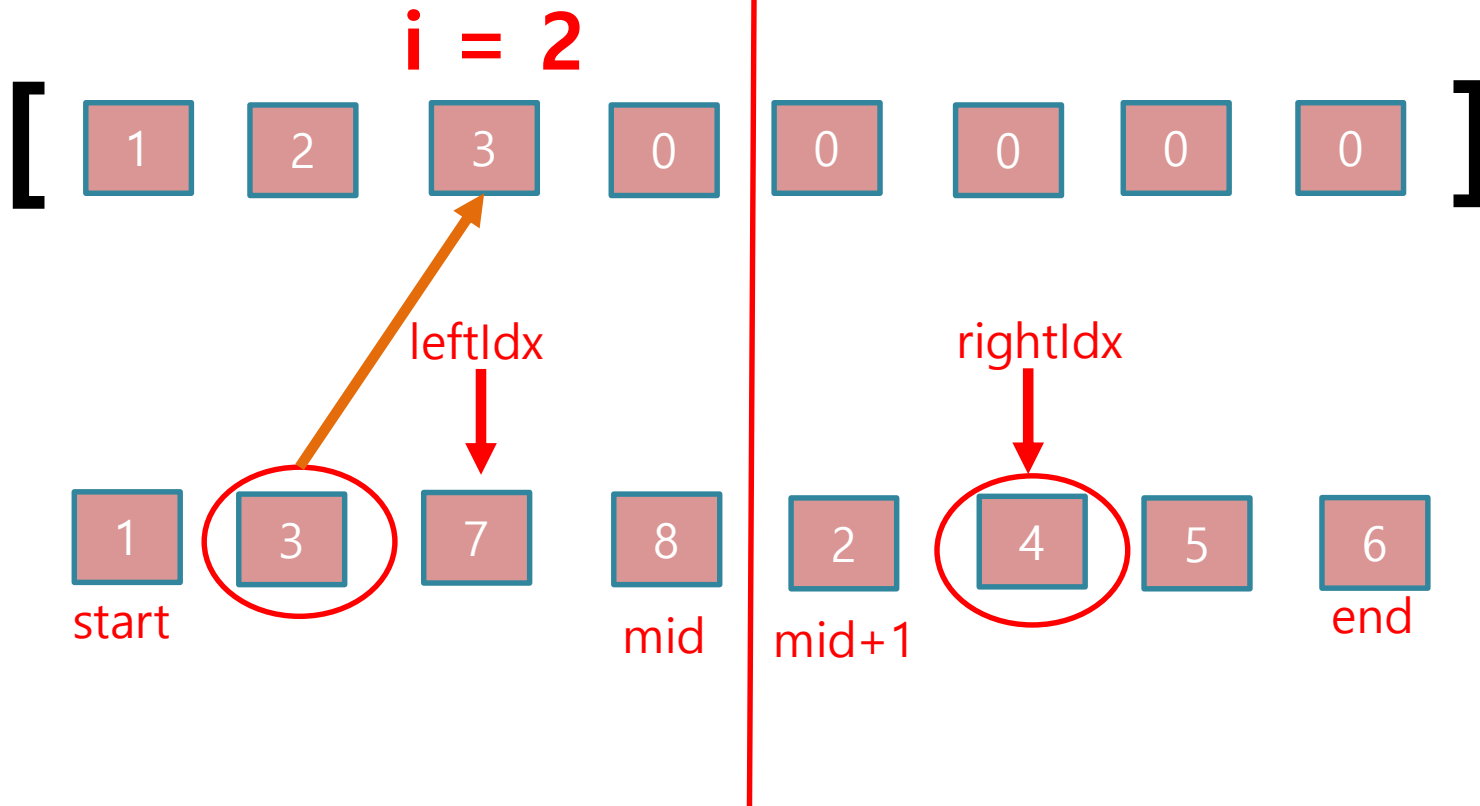
: MergeTwoSection() 함수



두 인덱스의 값을 비교
작은 값부터 임시 리스트에 채운다

mergesort

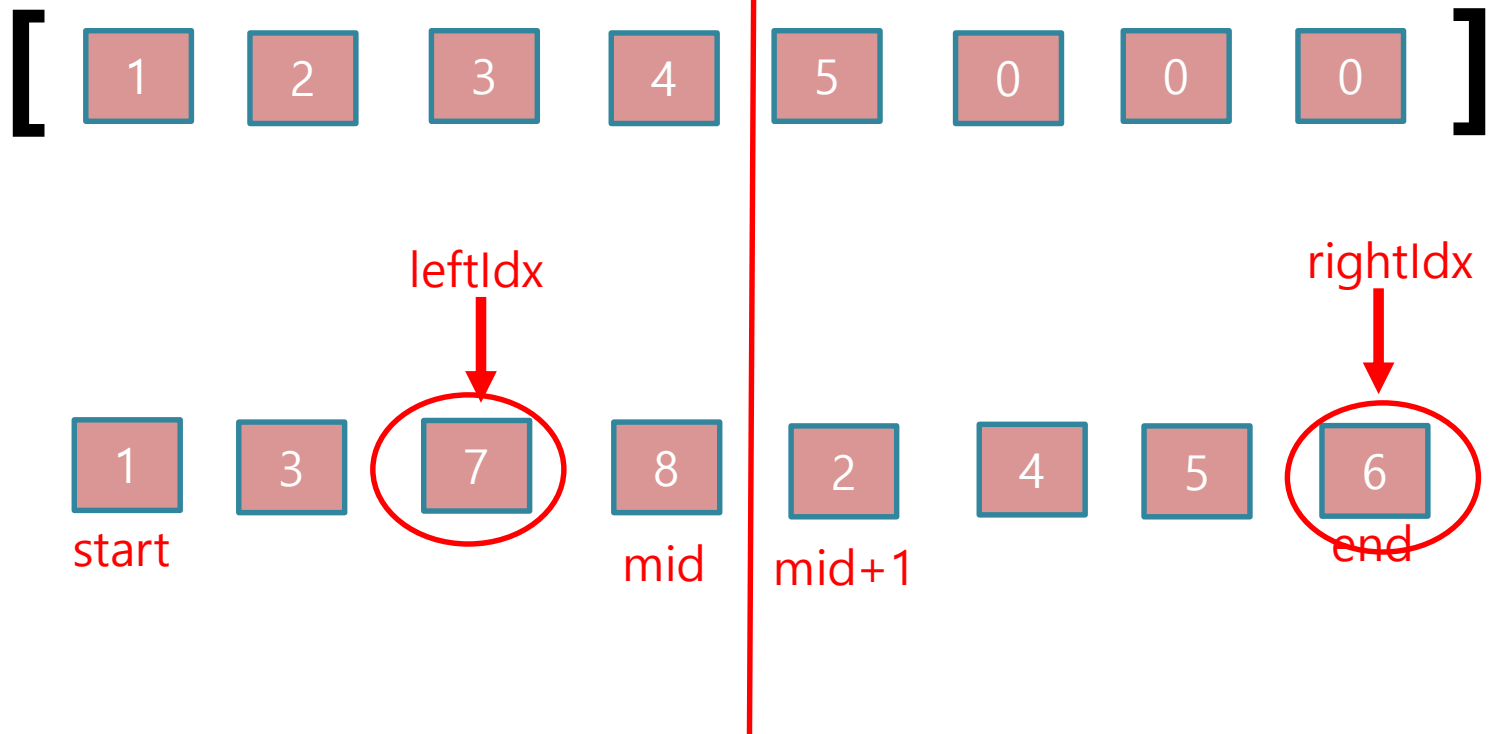
: MergeTwoSection() 함수



작은 값을 임시 리스트에 업데이트 후
leftIdx 값을 이동

mergesort

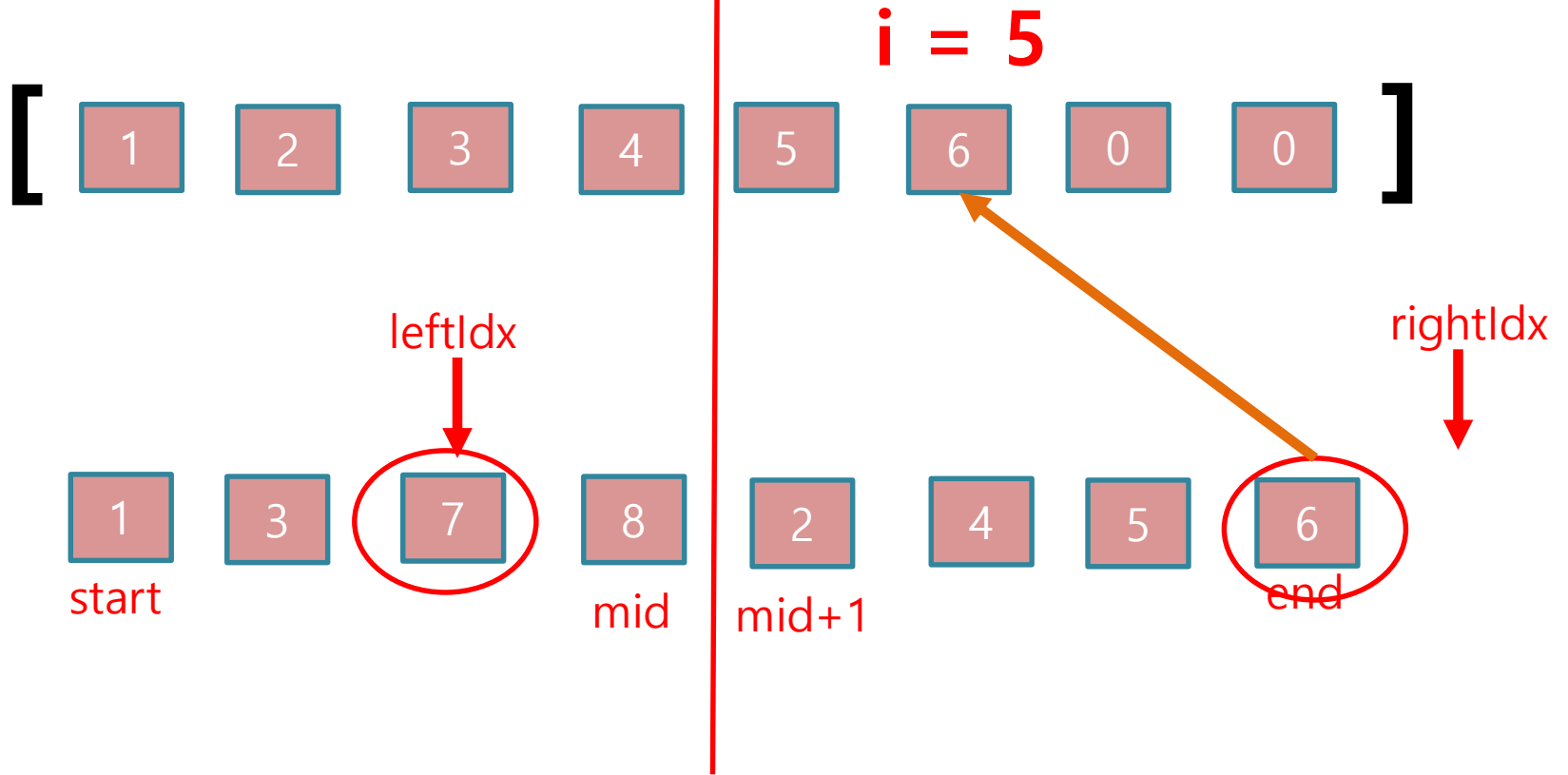
: MergeTwoSection() 함수



채워 나가다 보면 rightIdx가 end 값과 같아지고.....

mergesort

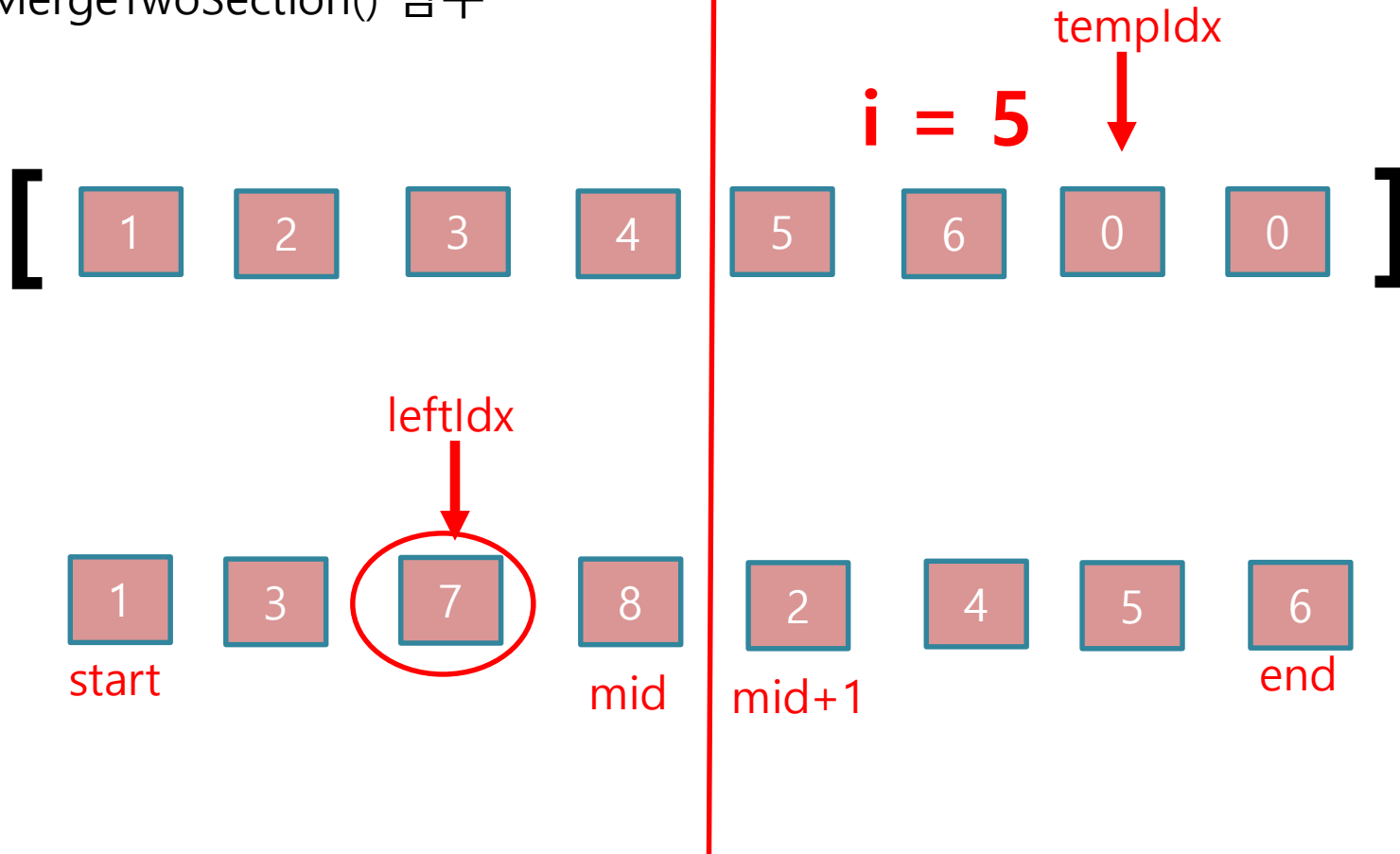
: MergeTwoSection() 함수



rightIdx가 end보다 커지면.....

mergesort

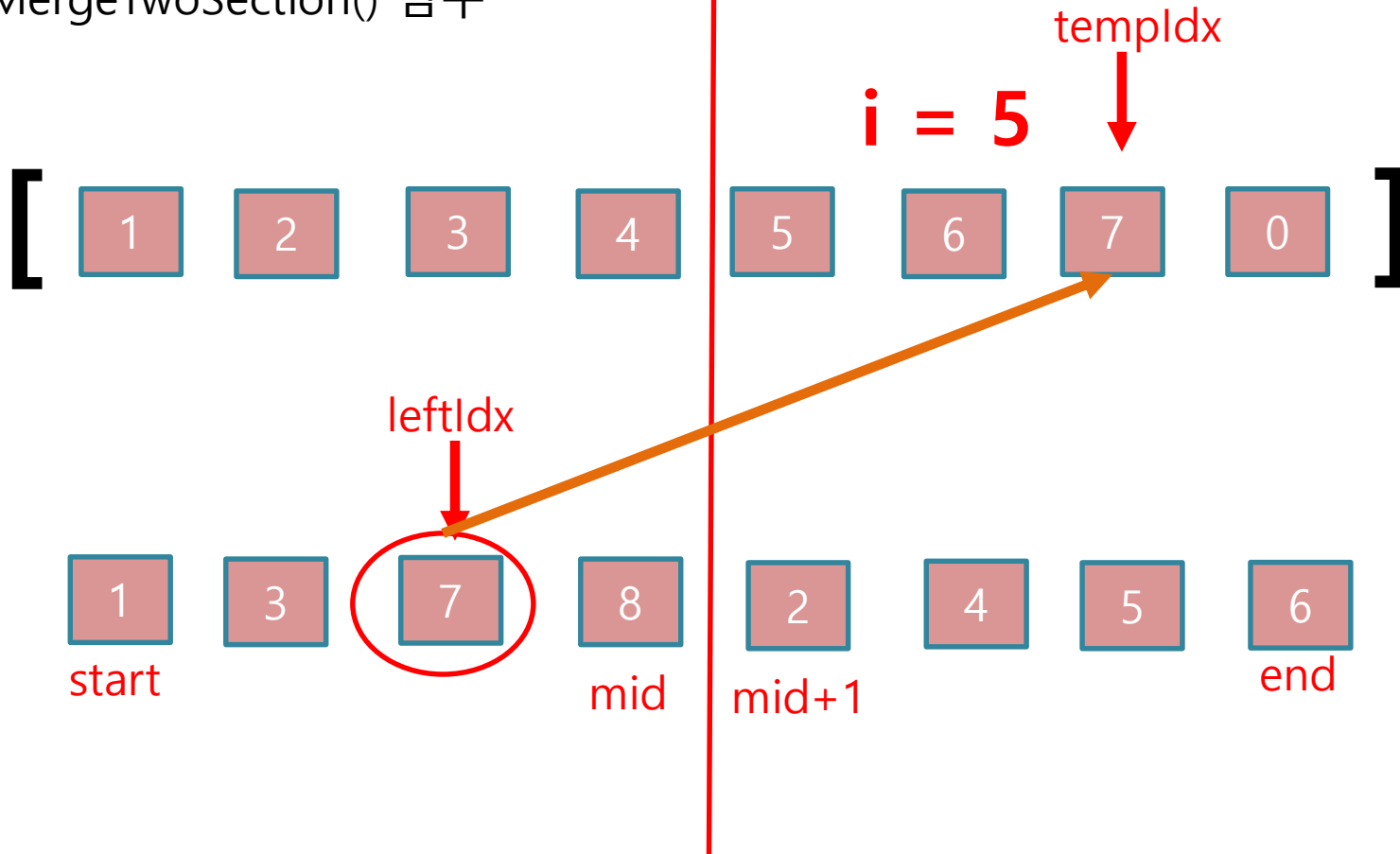
: MergeTwoSection() 함수



왼쪽 부분의 나머지 부분을 임시 리스트에 올린다

mergesort

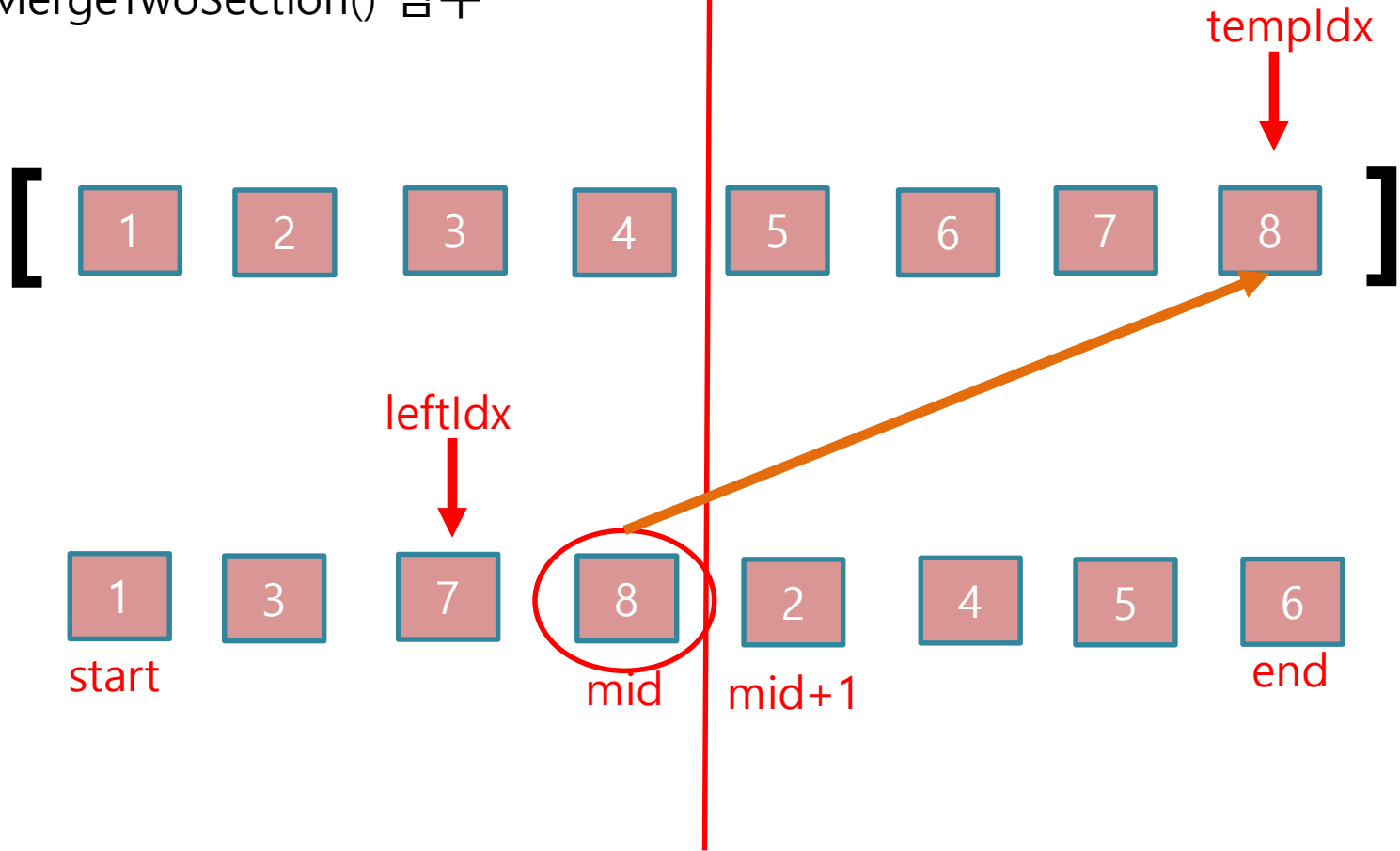
: MergeTwoSection() 함수



왼쪽 부분의 나머지 부분을 임시 리스트에 올린다

mergesort

: MergeTwoSection() 함수



왼쪽 부분의 나머지 부분을 임시 리스트에 올린다

mergesort

: mergesort() 함수

```
def mergesort(unsorted_list, start, end):  
    #탈출 조건  
    if start >= end:  
        return  
  
    mid = (start + end) // 2  
  
    #재귀함수로 나눈 후....  
    mergesort(unsorted_list, start, mid)  
    mergesort(unsorted_list, mid+1, end)  
  
    #나중에 합친다  
    MergeTwoSection(unsorted_list, start, mid, end)
```

mergesort

: mergesort() 함수

mergesort() 함수 호출 순서

