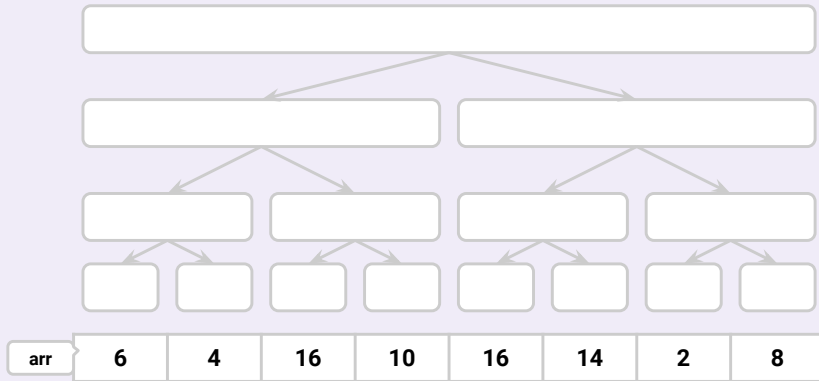


Q Parallel Prefix Count Greater Than 10



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Q1: Fill in the up pass and down pass for parallel prefix count-of-items-greater-than-10.

Q Compare and Contrast

Compare and contrast these three problems and describe a parallel algorithm for each one.
Return an **int** total count of integers in the input array greater than 10.

Return an **int[]** of prefix counts of integers in the input array greater than 10.

Return an **int[]** of only integers in the input array greater than 10 in the input order.

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Compare and contrast these three problems and describe a parallel algorithm for each one.

Q1: Return an **int** total count of integers in the input array greater than 10.

Q2: Return an **int[]** of prefix counts of integers in the input array greater than 10.

Q3: Return an **int[]** of only integers in the input array greater than 10 in the input order.

Q Expand

Describe a parallel algorithm for expand, which takes an `int []` and returns an `int []` where each item `a[x]` appears `a[x]` times in the input order.

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Q1: Describe a parallel algorithm for expand, which takes an `int[]` and returns an `int[]` where each item `a[x]` appears `a[x]` times in the input order.

Q Weird Parallel Merge

Say we pick the median from the smaller sorted array and run binary search to find the split point in the larger sorted array. Give a recurrence for the worst-case span of parallel merge.

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Q1: Say we pick the median from the smaller sorted array and run binary search to find the split point in the larger sorted array. Give a recurrence for the worst-case span of parallel merge.