3. Project in Text Indexing (WS 2017/18)

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Exercise 1 (GREEDY)
What is the worst case time complexity of the GREEDY algorithm for top-k document retrieval for single-term frequency ranking?

Exercise 2 (Range Median Queries)
Given an array of integers $A$ size $n$. A range median query returns for a subarray $A[i, j]$ the $\lceil \frac{j-i+1}{2} \rceil$-th smallest integer in $A[i, j]$.

- Show how range median queries can be solved in $O(\log n)$ time using a $O(n \log n)$ bit data structure.
- Implement your solution.