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// Linear time deterministic algorithm for selection.
select(A, j):
    n = |A|      // n = Number of elements in A: A = A[1..n]
    Form lists L1, L2, ..., L⌈n/5⌉ where Li = {A[5i - 4], ..., A[5i]}
    Find median bi of each Li using brute-force
    B = [b1, b2, ..., b⌈n/5⌉]
    b = select(B, ⌈n/10⌉) // Find median of medians
    Partition A into Aless and Agreater using b as pivot
    if (|Aless|) = j return b
    else if (|Aless|) > j)
        return select(Aless, j)
    else
        return select(Agreater, j - |Aless|)

```