Solution

1. Algorithm A = $T(n) \leq 5T(n/2) + O(n)$ = $O(n\ log\ n)$
2. Algorithm B = $T(n) \leq 2T(n-1) + c$ = $O(n)$
3. Algorithm C = $T(n) \leq 9T(n/3) + O(n^2)$ = $O(n\ log\ n^2)$

I would choose Algorithm A, because it cuts the problem size in half 5 times, rather than B, which only reduces the size by 1, and it combines the results in linear time, rather than C, which combines them in $O(n^2)$ time.