
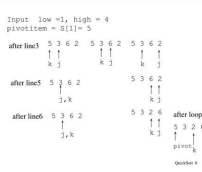


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2.10 [P] Algorithm Analysis Question: The QUICKSORT algorithm of section 7.1 contains two recursive calls to itself. After the call to PARTITION, the left subarray is recursively sorted. The second recursive call to QUICKSORT is not really necessary: it can be avoided by using an iterative control structure. This technique, called tail recursion, is provided automatically by good compilers. Consider the following version of quicksort, which simulates tail recursion.

```

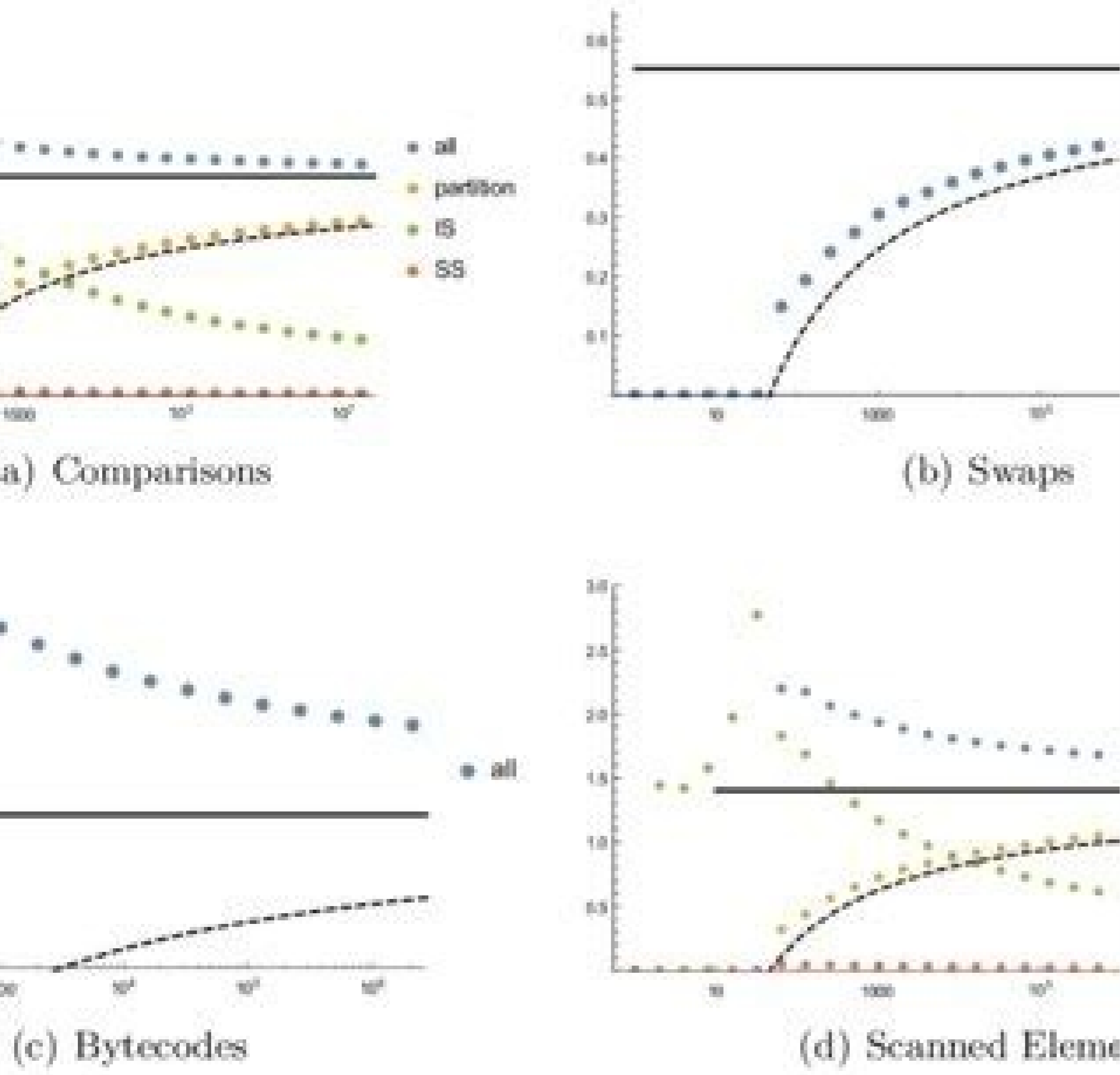
QUICKSORT(A, p, r)
1 while p < r
2 do  $\mathcal{P}$  PARTITION and sort left subarray
3   q := PARTITION(A, p, r)
4   QUICKSORT(A, p, q-1)
5   p := q+1

```

6. Argue that QUICKSORT(A, 1, length[A]) correctly sorts array A. Compilers usually execute recursive procedures by using a stack that contains pertinent information, including the parameter values, for each recursive call. The information for the most recent call is at the top of the stack, and the information for the initial call is at the bottom. When a procedure is invoked, its information is pushed onto the stack; when it terminates, its information is popped. Since we assume that array parameters are represented by pointers, the information for each procedure call on the stack requires $O(1)$ stack space. The stack depth is the maximum amount of stack space used at any time during a computation.

A. Describe a scenario in which the stack depth of QUICKSORT is $\Theta(n)$ on an n -element input array.

6. Modify the code for QUICKSORT so that the worst case stack depth is $\Theta(\lg n)$ while maintaining the $O(n \lg n)$ expected running time of the algorithm.



Quicksort Algorithm

Given an array of n elements (e.g., integers):

- If array only contains one element, return
- Else
 - pick one element to use as *pivot*.
 - Partition elements into two sub-arrays:
 - Elements less than or equal to pivot
 - Elements greater than pivot
 - Quicksort two sub-arrays
 - Return results

Merge classifying the data sequentially and the need for random access is low. INPOSSITY: This testing in QuickSort recent articles on the Coding Coding Station for classification. Classify, classify Heap, QuickSort, Radix Sort, Counting Sort, Bucket Sort, Shellsort, Fet Classin, Pigeonhole Sort lease Write comments if you find something incorrect or want to share more information about the topic discussed above. It can be resolved using case 2 of the master theorem. Averag: ϵ To make the dwarf of case of case, we need to consider all the possible exchange of the matrix and calculate the time spent by all permutations They don't look more likely. We can obtain a case of a case of case considering the case when the party places elements $O(n/9)$ in one set and $(9n/10)$ elements in another set. At the end of the matrices, we can not make random access to the linked list. However, mixing classification is usually considered better when data is huge and stored in external storage. Is QuickSort is strict? The implementation is not not estimated. $T(n) = T(0) + t(n-1) + (n)$ which is equivalent to $t(n) = t(n-1) + (n)$ the solution above the recall. (N2) The best case: the best case occurs when the process of partying always chooses the middle element as a pivan. If we consider the above -mentioned strategy, where the last element is always chosen as piva, the worst case would occur when the matrix is already classified in increased or decreasing order. K is the number of elements smaller than the piva. Allocating and unloring the extra space used for mixing increases the execution time of the Comparing the complexity of mothers, we find that both types of types are complexity of the $(n \log n)$ day, but the constants differ. If we ignore, we ignore the current element./* Low -> The starting, high -> eDing*/QuickSort (Ar [], low, high) {if (low

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