

CS052-PROBLEM SOLVING: COURSEWORK2

Due on WED, 18-12-2013

MARK:20%

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Problem 1

Following problem solving steps that you studied during the course; solve QuickSort problem. Your solution should include the following steps:

- Describe Quicksort using FlowChart (5 Marks).
- Write Pseudocode of QuickSort algorithm (5 Marks).
- Provide the Decision Table for QuickSort (5 Marks).
- Write the code for QuickSort problem (5 Marks).

Please note that your solution should be clear and steps should be written in an understandable way.

(20 Marks)

Note: Quicksort is a popular sorting algorithm that picks an element from the list, and reorder the list so that all elements which are less than the chosen element come before the chosen element. Figure 1 shows an example of QuickSort.

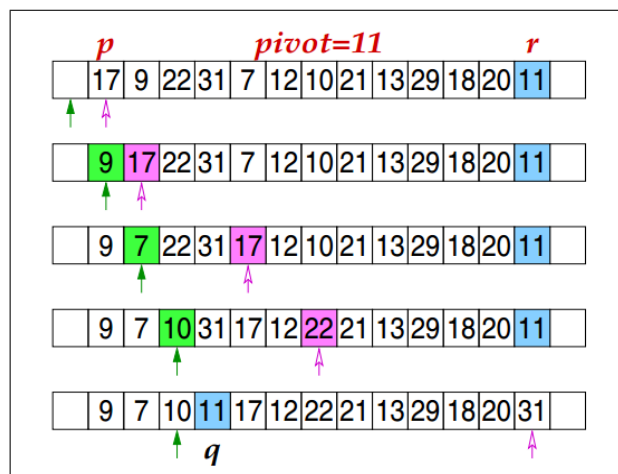


Figure 1: QuickSort Example