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## chapter 9 greedy technique

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the sub problems are then solved usually recursively or if they are small enough by a simpler algorithm and their solutions combined to get a solution to the original problem standard examples include mergesort quicksort multiplication of large integers and strassen s matrix multiplication several other interesting applications are



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an algorithm is simply a set of steps to accomplish or complete a task that is described precisely enough that a computer can run it it is a sequence of unambiguous instructions for solving a problem and is used for obtaining a required output for any legitimate input in a finite amount of time algorithms can be considered as procedural

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an  $f$  approximation algorithm is an algorithm for which a polynomial  $p$  exists such that for each instance  $i$  the algorithm terminates after at most  $p(\text{size } i)$  steps the algorithm computes a feasible solution and the cost of this solution is at most  $f \cdot \text{opt}(i)$  times the optimum cost of instance  $i$

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