Bulke sort and its variant.

These are exactly 2 variant of bubble sort.

The sequence to be sorked liken a sequence to a ... and the algorithm first performs now compare and exchange operation. and we perform O(n) iteration so total complexity O(n) Bubble Nort is difficult to paralize algorithm: BUBBLE_SORT (n) begin
for j=n-1 to 1 do for j = 1 to i do

compare exchange (aj, j + 1);end Bubble sort

a) The odd even transposition sorts in elements in a phase each phase require n/2 time.

b) There are 2 phases i add

a) even I adjaunt dements. d) Some of even phase but with just even indices.

e) Efter n phases of add even phase sequence is sorted.

tomplexity is orni)

2) Parallel Depth - first Search 2) Paralled Depth first search algorithms solve Dop's that can be formatted as tree search problems.

2) Des begins by expanding the initial rode & then generating its successors.

3) In each subsequent step, Des expands one of the most secently generated nodes. any solutions) then DFS backtracks and enponds a different p node.

5) A major advantage at DFS is that it storage requirement is linear in the depth of the state space being searched.

The following sections show three alopoithms based on depth first search. 3) Parallel best first Search, 3) Parallel best first search
1) In most parallel formulations of Bfs, different Successors
1) In most parallel formulations of Bfs, different Successors
1) These formulations different nodes from open list.
2) These formulations different the open list. Given p processors
1 the limplest strategy assigns each processors to work
1 on one of the current best hodes on the open list
2) The parallel Bfs expends more than one node different at may expand nodes that would not be expanded by a sequential algorithm.
4) The termination for criteria for normal Bfs fails for namallel Bfs. since the open list is the accessed for each node empansion, it must be easily accessible to all processors which will decreased officiently

following are steps of parallel Best first search.

Delien a socie is generated, it is sent to the processor whose label is returned by the bout function for the role.

Depon receiving the node, a processor checks. whether it already exists in the local open or closed list.

C) If not, the node is inserted in the open list.

Define rode already mists, and if the new node has a better cost associated with it, then the previous version of the node on the open list.