

Data structure and algorithm

Group assignment

1. Explore about

- Concept of recursion
- Recursive mathematical functions
- Simple recursive procedures
- Divide-and-conquer strategies
- Recursive backtracking?
 - ✓ Show recursive backtracking algorithm with example and its application?
 - ✓ Which data structure is used for implementation of recursion?

Take an example to show the implementation of recursion in data structure?

2. Explain about

- Brute-force algorithms
- Greedy algorithms
- Divide-and-conquer
- Backtracking
- Branch- and-bound

N.B

- To clearly understand the concepts, use examples for each algorithm you explained about.
- Every group should use different examples for the algorithms Using the same examples will not be accepted.
- All the group members should work together to understand the concept because few questions will be included in your final exam

Submission Date **30/09/2015 E.C**