

CSC210 Advanced Algorithm and Design Lab
17/04/2023

Time: 1 Hour
Marks: 100

Instructions

1. Write the programs with proper comments and indentation
2. Create a directory <Admission Number>_<Date> [21JEXXXX_090122], copy all the files into it and **upload in Google Class Room**
3. Submit a single C/C++ source file
4. Do not use STL calls
5. Each program should start with these comment lines:

/*

Name:

ID No:

*/

Q1. Write a program BB_PUZZLE to solve N puzzle problem with branch and bound strategy.

The **main()** function:

1. Take the initial organization of numbers. Call the function BB_PUZZLE [10]
2. BB_PUZZLE places the numbers 1,2,...,N-1 into NXN chessboard in the right order. Print the optimum cost, path from root to tree with cost at each level, and number of nodes explored in each level. [90]