

CS2000 Lab Statement 6

Armstrong Number: eg: 407 ; sum of cubes of digits is equal to the number itself.

Adams Number: eg: 12 square is 144, reverse of 12 is 21 ; square of 21 =441 which is the reverse of 144.

1. Develop a C++ package that
 - (a) Checks if a user keyed in integer is a Armstrong Number or Not
 - (b) Check if a user keyed in integer is an Adams Number or not.
 - (c) Generate a list of Armstrong numbers between user specified lower and upper limit
 - (d) Generate a list of Adams numbers between user specified lower and upper limit.
2. Develop a C++ package that simulates the game of Tic Tac Toe; 3 options to be possible ;
 - (a) Player 1 (A) v/s Player 2 (B) – both are user inputs
 - (b) Player (A) – user input v/s System (auto played by the program)
 - (c) System v/s System (both player moves are made by the program automatically)