Lab 08 - Dynamic Memory

Direction: Submit your typed work(s) as an upload(s) to the Labs directory of your GitHub repository or Dropbox, or in your correct Lab08 google classroom assignment. The file should be named "lab8B.cpp".

Part B: Take home

Your objective is to write the definition of the function GuessNumber() whose header is

bool GuessNumber(int lo,int hi,unsigned int attempts)

If the inclusive range of lo and hi is at least 20, the function selects a random number between lo and hi inclusively. Afterwards, it prompts the user to guess the random number until the user either guesses the number or runs out of attempts which equals the value of attempts. A guess only qualifies as an attempt if the number is within the range of lo and hi inclusively and it has not been guessed before. If the user guesses the number before running out of attempts, the function displays the message "Congratulations!"; otherwise, it displays the message "Better Luck Next Time!". And then, it returns true. Likewise, if attempts is equal to or more than the inclusive range of lo and hi, it is assigned half the inclusive range of lo and hi. Furthermore, if the inclusive range of lo and hi is less than 20, the function only returns false. Do not assume that lo is less than hi.

Note: To generate a random number use the rand() function from the cstdlib library