## Gebze Technical University Department of Computer Engineering CSE 241/501

## Object Oriented Programming Fall 2021

## Homework # 2 Due date Oct 27<sup>th</sup> 2021

You will continue developing your Peg Solitaire program with this homework. You will add the following features to your program.

 Your program should accept commands for loading and saving the game board at any step of the game. For example, instead of giving the column letters, if the user enters the command LOAD FILE.TXT

your program loads the game board from this file. Similarly, if the user enters the command SAVE FILE.TXT

your program saves the current game status to this file. You should save and load all game related information such as human or computer, number of moves, etc.

• It is possible to have arbitrary board types. When loading games, the loaded game information defines the board configuration. For example, the file may contain a board such as below.

- Easy
- Your program should have at least one function that takes a parameter by reference and a constant parameter by reference.
- Your program should have at least one function that uses default arguments.
- Your program should have at least one auto statement and one declrtype statement.
- All the errors should be printed to cerr object and all the other text should be sent to cout.

The rest of the program will be the same as HW1.

## Notes:

- Do not use any functions from the standard C library (like printf)
- Read the chapter about file input output for reading and writing text files using streams.
- Do not use anything that we did not learn in the lectures.
- Do not forget to indent your code and provide comments.
- Check the validity of the user input and file contents.
- <u>Test your programs very carefully at least with 10 different runs. Submit at least two saved files with your HW.</u>
- You should submit your work to the Teams page.