

Three Steps to use PROSOLVE game

Figure 1 shows the interface of the game.

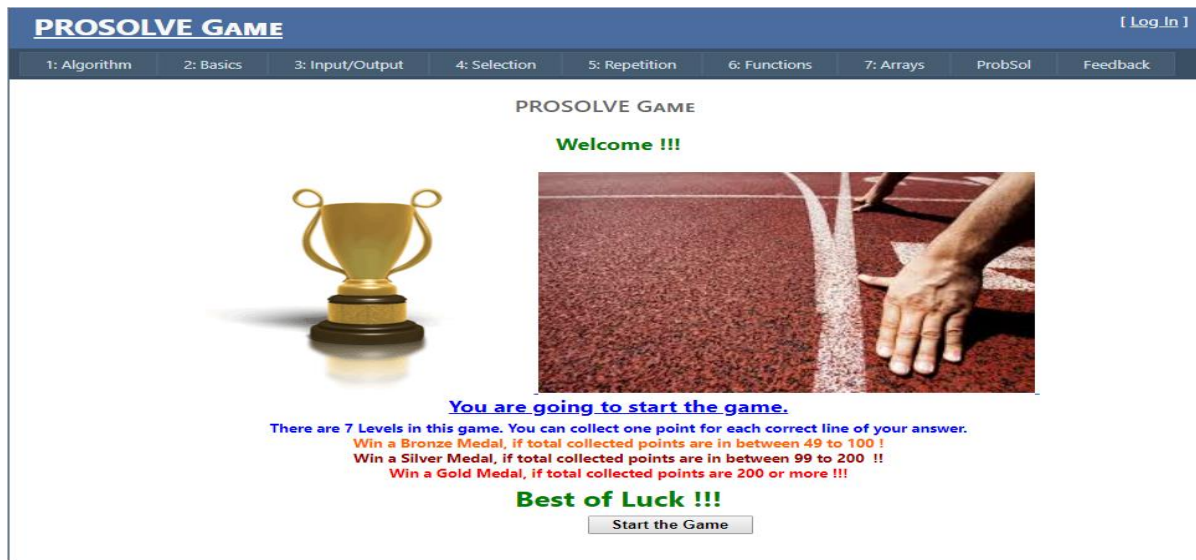


Figure 1: Interface of PROSOLVE game

Step 1: The game consists of two list boxes (Random Steps and Solution) as shown in figure 2. The Random Steps list box shows all the Pseudo-code steps for a given problem statement in a random manner. A user re-arranges the given random steps of pseudo-code algorithm into its correct steps of sequential order by moving the steps, up or down using the 'Arrow Buttons' at right side of the list box. Number of clicks is recorded while moving the Arrow Buttons up or down. It displays a congratulatory message, if proper sequence is already achieved after the last click for its correct solution.



Figure 2: List boxes of PROSOLVE game

Step 2: When the users' solution is ready for the given problem statement, click at the command push button, 'Get POINTS'. It shows the correct answer along with the earned Total POINTS. It also displays the number of errors and points collected for correct sequential steps to the given question. Click at the button for 'Next Question' or navigate through the required menu option to get the next problem statement to solve it by providing its correct sequence of algorithm. Point shows the number of correct steps in the solution. Repeat these steps for all the questions specified in this current level and then the game goes to the next level. Questions related to another topic in the IP course are displayed in the next level. When the user clicks at the button 'Go to Level 2', a window as shown in figure 3 is displayed.

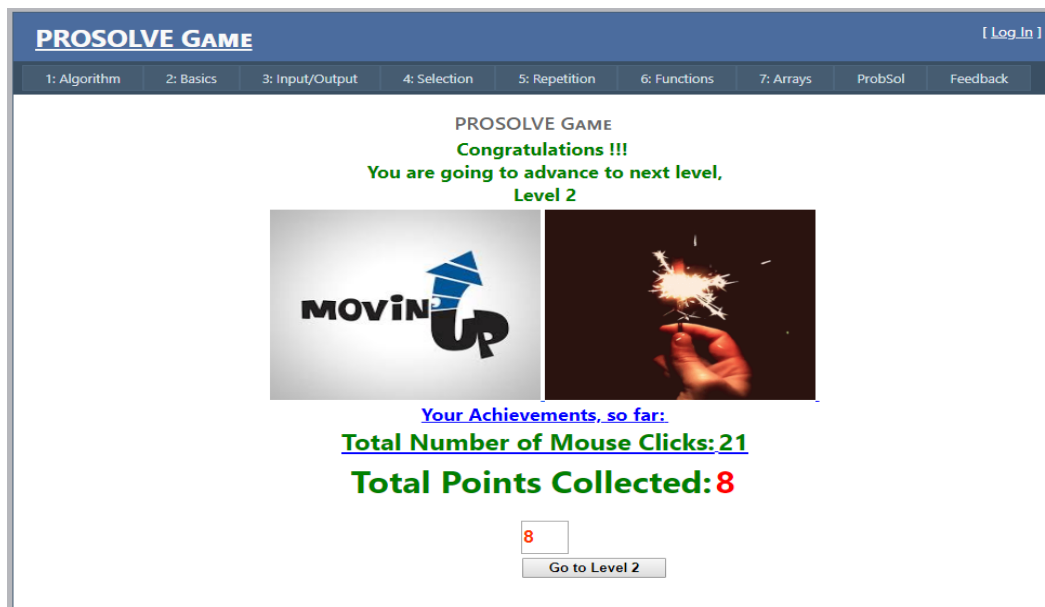


Figure 3: Next level window of PROSOLVE game

Step 3: There are 7 Levels in this game. The player can collect one point for each correct line of the answer. The player can win a Bronze Medal, if total collected points are in between 49 to 100. Win a Silver Medal, if total collected points are in between 99 to 200 and win a Gold Medal, if total collected points are 200 or more. The player will not get any medal if total points collected are less than 50. The player can get a Cup too when completes the game. But the type of the cup depends on the total points obtained. Different types of the cups are Black, Bronze, Silver and Gold. Black cup if total points collected are less than 50 and Gold cup if it is above 200 points as shown in figure 4.



Figure 4: Game completed window of PROSOLVE game