

Programming Project 2

Table Tennis knockout Competition



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SCHOOL OF INFORMATICS

Contents

[Screen Designs 2](#_Toc435376337)

[Story Board 5](#_Toc435376338)

[Test Plans 6](#_Toc435376339)

[Screen 1 – Name Entry 6](#_Toc435376340)

[Screen 2 - Menu 7](#_Toc435376341)

[Screen 3 – Game result entry 7](#_Toc435376342)

[Screen 4 – Round display 8](#_Toc435376343)

[Screen 5 – Players Advancing 8](#_Toc435376344)

[JSP 9](#_Toc435376345)

[Code Listing 10](#_Toc435376346)

[Test Log 11](#_Toc435376347)

# Screen Designs

\* Name Entry \*  
Please enter 16 player names for the first round, maximum 30 characters per name. Separate names by pressing return.  
Player names:   
Player Name 1  
Player Name 2  
Player Name 3  
Player Name 4  
Player Name 5  
Player Name 6  
Player Name 7  
Player Name 8   
Player Name 9   
Player Name 10   
Player Name 11  
Player Name 12  
Player Name 13   
Player Name 14   
Player Name 15   
Player Name 16  
Press Enter to continue...

Figure 1 – Screen 1: Name entry

\* Menu \*   
1. Enter a game result.  
2. Display the current round.  
3. Display those who are through to the next round.  
4. Display the previous round.  
5. Exit program.  
Please enter the number for the action you wish to take: 2

Figure 2 – Screen 2: Menu

\* Game Result Entry \*  
Entering results for round 1  
  
Enter match number to add game result to: 1  
Please enter Player Name 1’s score: 21  
Please enter Player Name 2’s score: 6

Figure 3 – Screen 3: Game Result Entry

\* Round Display \*  
Displaying Round 1  
  
Match 1:  
+----------------------------------------------+  
| Player Name 1 |21|19| 0| 8|xx| Loser |  
| Player Name 2 | 6|21|21|21|xx| Winner |  
+----------------------------------------------+  
  
Match 2:  
+----------------------------------------------+  
| Player Name 3 |20|19| 0|xx|xx| Loser |  
| Player Name 4 |21|21|21|xx|xx| Winner |  
+----------------------------------------------+  
  
Match 3:  
+----------------------------------------------+  
| Player Name 5 |21|21| 8|18|21| Winner |  
| Player Name 6 | 6|15|21|21|19| Loser |  
+----------------------------------------------+   
Etc.  
Press Enter to continue...

Figure 4 – Screen 4: Round Display

\* Players Advancing \*  
Players advancing from round 1 into round 2:  
  
Player Name 2   
Player Name 4   
Player Name 11  
Player Name 13  
Player Name 15  
  
Press Enter to continue...

Figure 5 – Screen 5: Players Advancing Display

# Story Board

Name Entry

Menu

Exit

Enter  
Game Result

Display Round

Players Advancing

# Test Plans

## Screen 1 – Name Entry

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Input Data** | **Expected Output** | **Comment** |
| 1 | Player Name A Player Name B Player Name C Player Name D Player Name E Player Name F  Player Name G Player Name H  Player Name I  Player Name J  Player Name K Player Name L Player Name M  Player Name N  Player Name O  Player Name P | \* Name Entry \* Please enter 16 player names for the first round, maximum 30 characters per name. Separate names by pressing return. Player names:  Player Name A Player Name B Player Name C Player Name D Player Name E Player Name F  Player Name G Player Name H  Player Name I  Player Name J  Player Name K Player Name L Player Name M  Player Name N  Player Name O  Player Name P Press Enter to continue... | Simple valid data |
| 2 | aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | Player names must be between 1 and 30 characters long | 31 character name |
| 3 | <blank line> | Player names must be between 1 and 30 characters long | Blank name |
| 4 | a | A | Single character name |
| 5 | aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | 30 character name |
| 6 | John 123 | John 123 | Name Containing Numbers |

## Screen 2 - Menu

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Input Data** | **Expected Output** | **Comment** |
| 1 | 1 | <See screen design 3> | Shows game result entry screen. |
| 2 | 2 | <See screen design 4> | Shows round display screen for current round |
| 3 | 3 | <See screen design 5> | Shows Players Advancing screen for current round |
| 4 | 4 (before finished entering round 1 results) | No previous round to display | Invalid data at this time. |
| 5 | 4 (after entering round 1 results) | <See screen design 4, but with full results of previous round> | Shows round display screen for previous round |
| 6 | 5 | <exits the program> |  |

## Screen 3 – Game result entry

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Input Data** | **Expected Output** | **Comment** |
| 1 | 1  21  6 | \* Game Result Entry \* Entering results for round 1  Enter match number to add game result to: 1 Please enter Player Name 1’s score: 21 Please enter Player Name 2’s score: 6 | Simple valid data with player 1 winning |
| 2 | 1  12  21 | \* Game Result Entry \* Entering results for round 1  Enter match number to add game result to: 1 Please enter Player Name 1’s score: 12 Please enter Player Name 2’s score: 21 | Simple valid data with player 2 winning |
| 3 | A | Invalid match number please enter an integer between 1 and 12 | Match numbers are not letters |
| 4 | 0 | Invalid match number please enter an integer between 1 and 12 | Match numbers are not below 1 |
| 5 | 13 | Invalid match number please enter an integer between 1 and 12 | Match numbers are not above 12 |
| 6 | 10.2 | Invalid match number please enter an integer between 1 and 12 | Match numbers are not floats |
| 7 | 1  A | Invalid score please enter an integer between 0 and 21 | Scores are not letters |
| 8 | 1  -1 | Invalid score please enter an integer between 0 and 21 | Scores are not below 0 |
| 9 | 1  22 | Invalid score please enter an integer between 0 and 21 | Scores are not above 21 |
| 10 | 1  5.26 | Invalid score please enter an integer between 0 and 21 | Scores are not floats |
| 11 | 1  12  A | Invalid score please enter an integer between 0 and 21 | Scores are not letters |
| 12 | 1  12  -1 | Invalid score please enter an integer between 0 and 21 | Scores are not below 0 |
| 13 | 1  12  22 | Invalid score please enter an integer between 0 and 21 | Scores are not above 21 |
| 14 | 1  12  5.26 | Invalid score please enter an integer between 0 and 21 | Scores are not floats |
| 15 | 1  21  21 | Impossible results, exactly one player must have scored 21 | No ties are possible |
| 16 | 1  10  10 | Impossible results, exactly one player must have scored 21 | Incomplete game, no winner yet |

## Screen 4 – Round display

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Input Data** | **Expected Output** | **Comment** |
| 1 | <no input> | <Shows currently entered scores> | Shows results correctly |
| 2 | <any char pressed> | <returns to menu> |  |

## Screen 5 – Players Advancing

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Input Data** | **Expected Output** | **Comment** |
| 1 | <no input> | <Shows current players who have 3 21 scores> | Shows advancing players correctly |
| 2 | <any char pressed> | <returns to menu> |  |

# JSP

# Code Listing

# Test Log