## Massachusetts Institute of Technology Department of Electrical Engineering and Computer Science 6.111 - Introductory Digital Systems Laboratory

## **Final Project Check Off Sheet**

Project Title: Enhanced DDR

Student Names: Sharmeen Browarek, Anna Ayuso

TA Name: Jae Lee

TA	Signature/Date:
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## <u>Design</u>

State transition diagrams, Block Diagrams, Code

## **Functionality**

- Screen shot of game mode (Sharmeen)
- Screen shot of menu mode (Sharmeen)
- Screen shot of report card mode (Sharmeen)
- Arrow ascend the screen vertically in game mode (Sharmeen)
- A dynamic, dancing beaver is displayed in game mode (Sharmeen)
- Song starts when user selects difficulty level (Anna)
- Beats of the song match the arrows hitting the top of the screen (Anna)
- User is able to reset game at any time (Anna)
- User is able to select arrows with IR sensors (Anna)
- Game transitions from menu mode to game mode to report card mode (Anna)
  - User is able to select arrows with FPGA push buttons
  - Game fails if the user misses too many arrows

Score is given in the report card mode that matches the user's performance
Game mode screen will continue to update the accuracy bar during the game
System rates the performance of the user based on the proximity of the arrows to the goal and the coordination of the user's footwork.