Arnav

Original: Car moved too fast, didn’t meet the time constraints, car had no consistency with path, bottle would slide, bottle would move left and right, bottle wouldn’t tip  
Phase 1: Increased the distance of the track to increase time of car event, implemented barriers around the bottle to stop side to side movement  
Phase 2: Barriers around car track to ensure direct hits, placed the bottle on a lower platform so the car hits top of bottle for more leverage in rotation, bottle still slides  
Phase 3: Stick tape added to front bottom of bottle

Jai

Original: Round bottle, not enough tape, string in wrong position on handle  
Phase 1: Square bottle, string moved to end of handle of scissors  
Phase 2: Line for bottle start position, sticky tape not strong enough for multiple tests, sticky tape fails on tenth test from weight of pulley  
Phase 3: Changed from masking tape to duct tape, added a lot more tape, tape fails every 50 tests

Himanshi

Original: The track was small, car kept falling, did not meet time constraint  
Phase 1: Implement the longer track, but car kept falling off, did not meet time constraint  
Phase 2: Implemented barriers, added another event  
Phase 3: Implemented marker above the pendulum stand to add control to start point of pendulum

Indigo

Original: No marble track, would not hit the dominos, dominos did not meet the time constraints  
Phase 1: Implemented a marble track, added more dominos and turns to slow down domino event  
Phase 2: Implemented the start points of all dominos in track based on a domino equation  
Phase 3: **No changes**, already at 100% reliability from 50 tests

Faisal

Original: Ball not heavy enough to turn off alarm, ball would miss alarm, track not long enough  
Phase 1: Used heavier ball to turn off alarm, ball would miss alarm, track not long enough  
Phase 2: Longer track, ball would not make it down the track all the time  
Phase 3: Heavier ball turning off alarm all the time, track goes right next to alarm to not miss alarm, bigger seesaw to give the ball more force