Test Plan

I believe that I have achieved a grade in between 90-100, as I have tried to include all of the requirements needed to achieve the other grade bands.

I have chosen a canvas size of (1000, 1200) as on my laptop, the game runs at a size that I am happy with.

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| Test Number | Description | Expected Outcome | Pass/Fail |
| 1 | Starts program, on splash screen, press I for instructions | When I is pressed, Instructions should be displayed | PASS |
| 2 | Starts program, on splash screen, press space to start game | When spacebar is pressed, game should start | PASS |
| 3 | game starts  press left to move boat left | Boat should move left a bit when the left key is pressed | PASS |
| 4 | game starts  press right to move boat right | Boat should move right a bit when the left key is pressed | PASS |
| 5 | game starts, , (level 1,2 and 3) press left to move boat left  Move boat to left edge of screen screen | Boat should stay on the screen and not move any further left | PASS |
| 6 | game starts, , (level 1,2 and 3) press right to move boat right  Move boat to right edge of screen | Boat should stay on the screen and not move any further right | PASS |
| 7 | Game starts, , (level 1,2 and 3) press down to drop hook | Hook should drop down to catch fish | PASS |
| 8 | Game starts, (level 1,2 and 3) hook dropped, | Hook should collide with fish/screen and come back to original position | PASS |
| 9 | Game starts, (level 1,2 and 3) hook collides with fish | Hook should return to boat with the fish | PASS |
| 10 | Game starts, (level 1,2 and 3) hook collides with fish  Score increases | Score should increment by number of fish caught | PASS |
| 10 | Game starts, level 1, all fish are caught | Level 1 should be completed and level 1 complete screen displayed | PASS |
| 12 | Game starts, level 1 completed screen  Space to play next level | Level 2 should begin | PASS |
| 13 | Game starts, level 1 completed  Level 2 | Game stats should reset and fish should reset to initial place | PASS |
| 14 | Game starts, (level 1,2 and 3) time runs out | game should be over, game over screen displayed | PASS |
| 15 | Game starts, , (level 1,2 and 3) predator reaches top without crashing | predator should pop, new predator produced | PASS |
| 16 | Game starts, , (level 1,2 and 3) predator reaches top and crashes | Predator should crash with boat and a life should be lost | PASS |
| 17 | Game starts, , (level 1,2 and 3) predators crash with boat multiple times | Game should be over as all lives will be lost, game over screen displayed | PASS |
| 18 | Game starts, level 2, all fish caught | Level 2 should be completed and level 2 complete screen displayed | PASS |
| 19 | Game starts, level 2 completed screen  Space to play next level | Level 3 should begin | PASS |
| 20 | Game starts, level 2 completed  Level 3 | Game stats should reset and fish should reset to initial place | PASS |
| 21 | Game starts, level 3, all fish caught | Level 3 should be completed and game should be won | PASS |
| 22 | Game starts, game is completed | Game over screen should be displayed | PASS |
| 23 | Game starts, game is completed  High score not beaten | Time remaining of level 3 should be displayed | PASS |
| 24 | Game starts, game is completed  High score not beaten | Score should be displayed | PASS |
| 25 | Game starts, game is completed  High score not beaten | total should be displayed | PASS |
| 26 | Game starts, game is completed  High score not beaten | Best total should be greater than the total | PASS |
| 27 | Game starts, game is completed, High score not beaten  Press space to play again | Game should reset and level should revert to level 1 | PASS |
| 28 | Game starts, game is completed  High score beaten | Time remaining of level 3 should be displayed | PASS |
| 29 | Game starts, game is completed  High score not beaten | Score should be displayed | PASS |
| 30 | Game starts, game is completed  High score not beaten | total should be displayed | PASS |
| 31 | Game starts, game is completed  High score not beaten | Best total should be greater than the total | PASS |