DEBUG LOG

**BUG 1: Player loses double on loss**

H0: The bet value in the loseBet() function is incorrect

P0: The bet amount is not passed from the Player’s input to the bet function correctly

T0: Put a breakpoint in the lostBet() function to check the bet value is the same as what the player put in, in this case $10

R0: The bet value was correct and equalled 10 in this case – H0 rejected

H1: The balance is subtracted incorrectly

P1: The bet value is subtracted against the balance when the bet value is entered by the user well before the player gets the chance to lose the bet

T1: Put a breakpoint in the function where the bet value is entered by the user and check the balance value

R1: The bet value was subtracted from the balance when the bet value was set by the player – H1 accepted

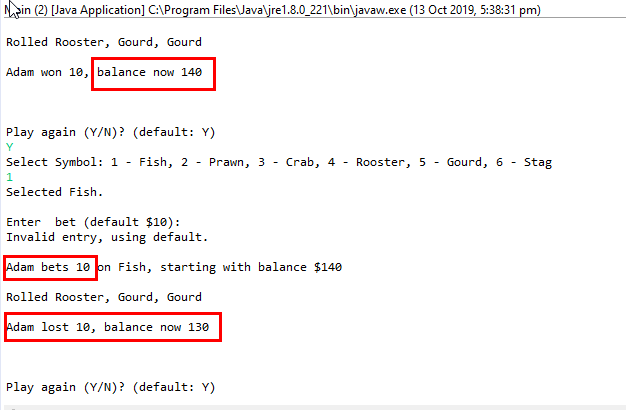
Bug found – mistake in business logic, bet should only be subtracted when player loses bet

H2: Remove the subtraction from the balance in the placeBet function

P2: When logic is fixed, balance will be correct therefor when the player loses, they will only lose the amount they bet

T2: Place breakpoint in placeBet function to check that it results in the correct balance

R2: Confirmed, balance variable is now resulting in the correct number



Bug resolved

**BUG 2: Player doesn’t receive any winnings**

Note: On a win the balance does increase now that BUG 1 was fixed but the balance value does not increase enough

H0: The winnings value is 0 in the receiveWinnings function and therefor the balance does not increase

P0: The value of the winnings is incorrectly assigned as 0

T0: Put a breakpoint in the receiveWinnings() function to check the winnings value is zero

R0: The winnings value is correct and in this case – H0 rejected

H1: The original bet is zero

P1: After the player wins, the original bet is zero and get nothing back

T1: Put a breakpoint where before the winnings are returned to check the value for the bet variable

R1: The bet variable has the value that the Player inputted – H1 rejected

H2: Balance has not increased by the winnings

P2: After the player wins, check the winnings has been added to the balance in the receiveWinnings function

T2: Put breakpoint before the balance plus winnings code to check the output

R2: The balance and winnings addition is never ran – H2 rejected

H3: The balances and winnings are not added together because the if statement inside the receiveWinnings function is never met due to the state of the bet is incorrect

P3: Check the state of the bet

T3: Put breakpoint at the start of receiveWinnings function to check the state of the bet

R3: State of the bet is “NOT\_BETTING” when “RECEIVING\_WINNINGS” is required – H3 confirmed

Bug found – state should be set to “RECEIVING\_WINNINGS” at the end of returnBet function is called

H4: Fix state to “RECEIVING\_WINNINGS” at the end of returnBet function

P4: When state is fixed, the if statement in receiveWinning will execute and winnings will be added to balance

T4: Set breakpoint in receiveWinnings function to check whether the if statement is executed

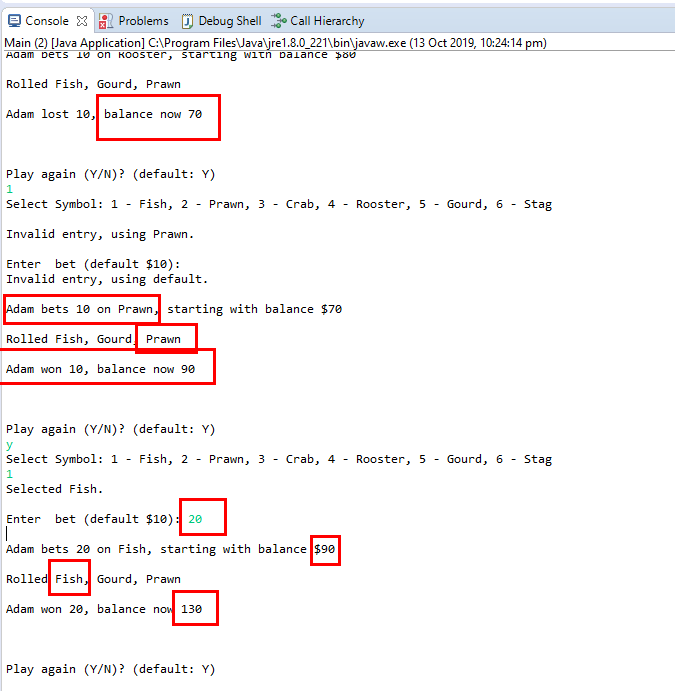
R4: receiveWinnings if statement executed and winning is added to balance

H5: Balance increases correctly when player wins

P5: When player wins, they get their original bet back plus the additional amount depending on how many times their selection was rolled

T5: Display correct balance result on screen

R5: Confirmed, balance result is correct



**BUG3: Player cannot reach betting limit**