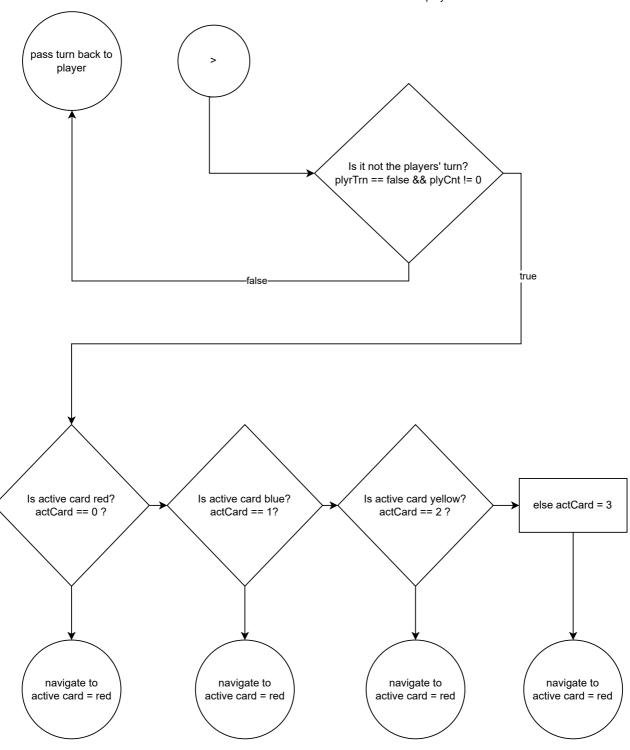
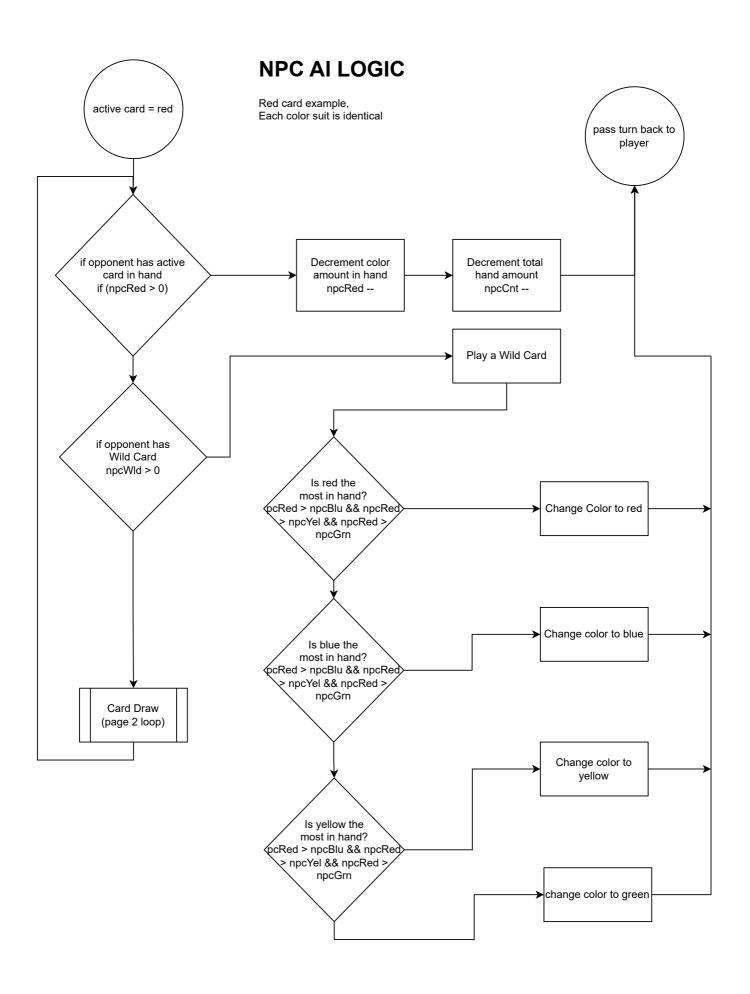
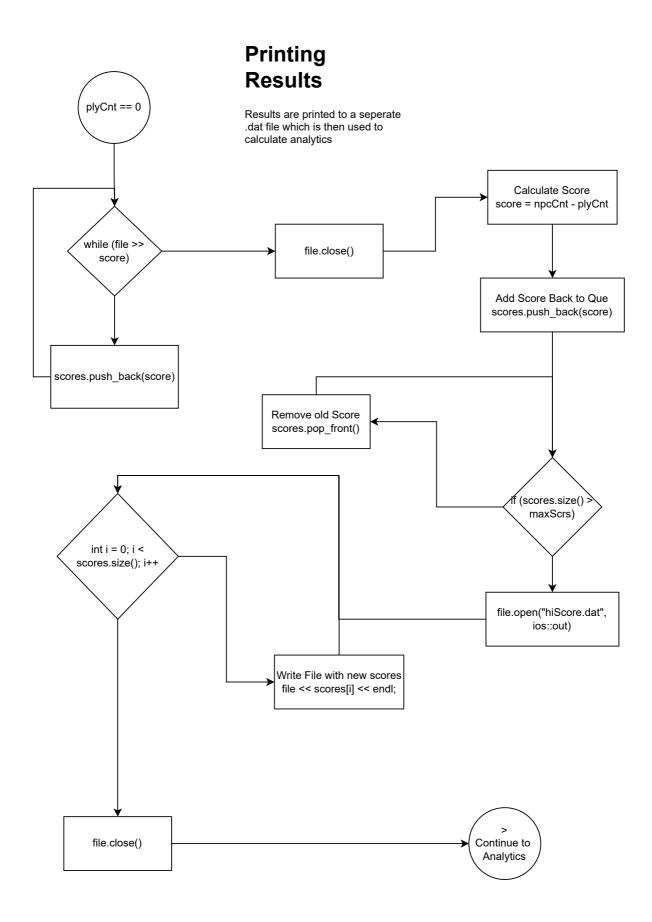


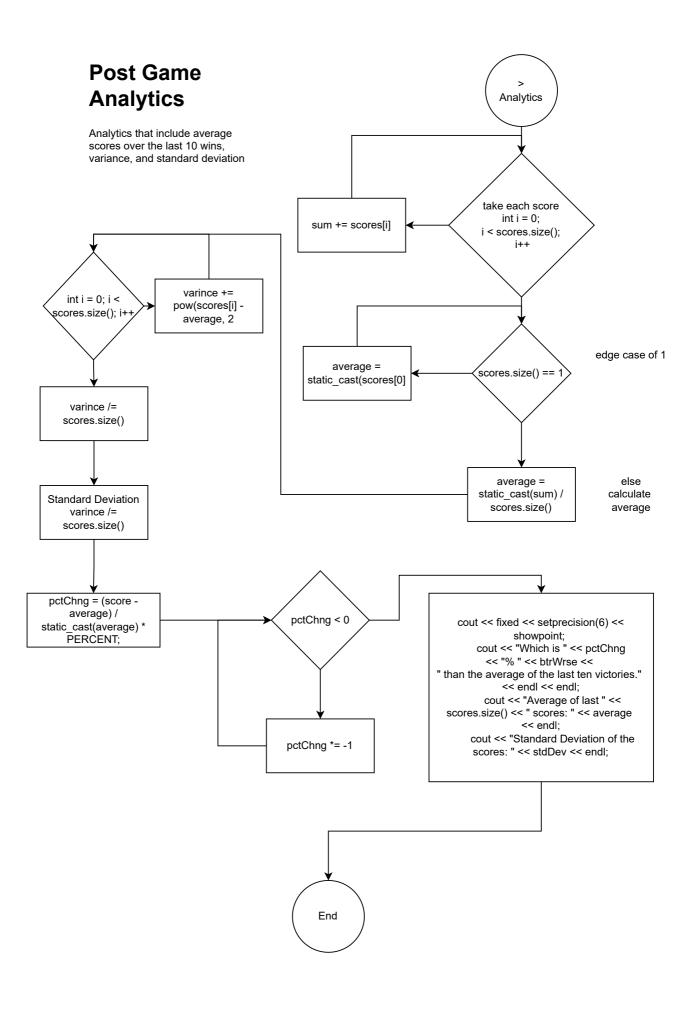
## **NPC AI LOGIC**

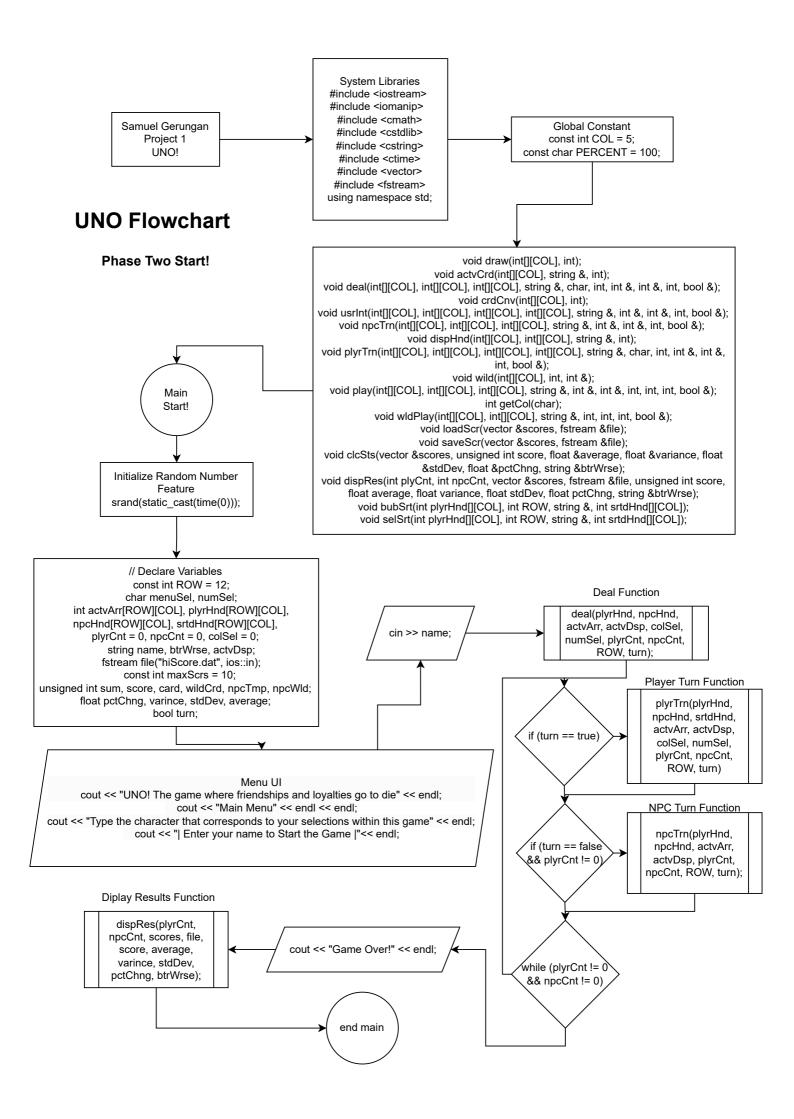
Decision tree to branch based off of color in play





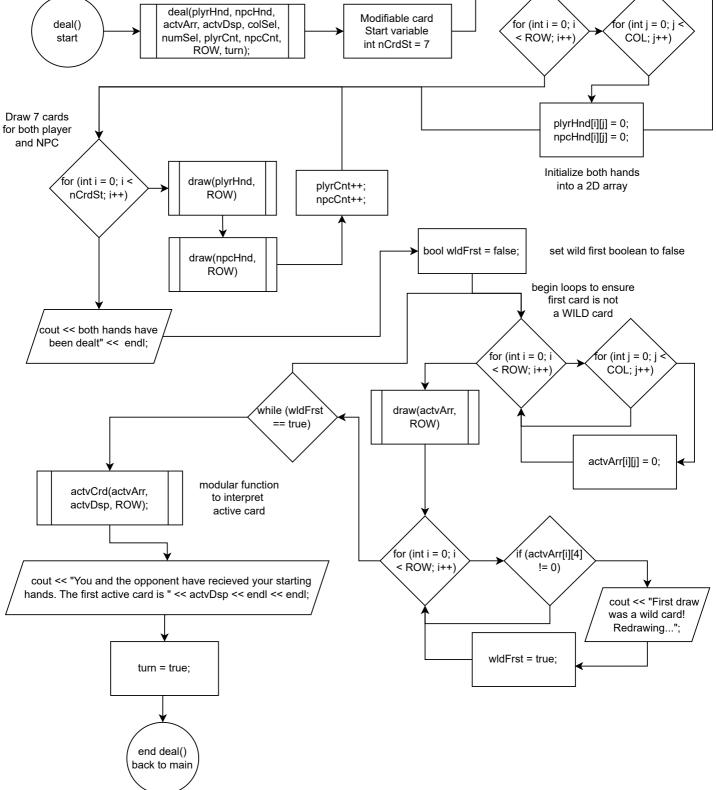






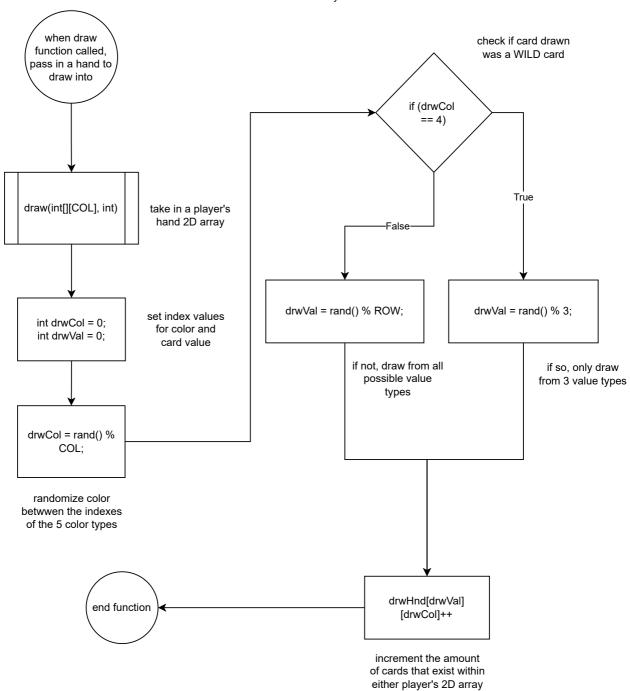
## **Deal Funcion**

This function deals according to modular and modifiable values set by user. Dictates the first hands of both players, and sets a starter card. deal(plyrHnd, npcHnd, Modifiable card actvArr, actvDsp, colSel, for (int i = 0; i for (int j = 0; j -Start variable numSel, plyrCnt, npcCnt, < ROW; i++ COL; j++) int nCrdSt = 7 ROW, turn); plyrHnd[i][j] = 0;npcHnd[i][j] = 0;Initialize both hands draw(plyrHnd, plyrCnt++; into a 2D array ROW) npcCnt++; bool wldFrst = false; set wild first boolean to false draw(npcHnd, ROW) begin loops to ensure first card is not a WILD card for (int i = 0; for (int j = 0; j -< ROW; i++ COL; j++) draw(actvArr, while (wldFrst == true) ROW) actvArr[i][j] = 0;modular function to interpret active card for (int i = 0; i if (actvArr[i][4] < ROW; i++ != 0)

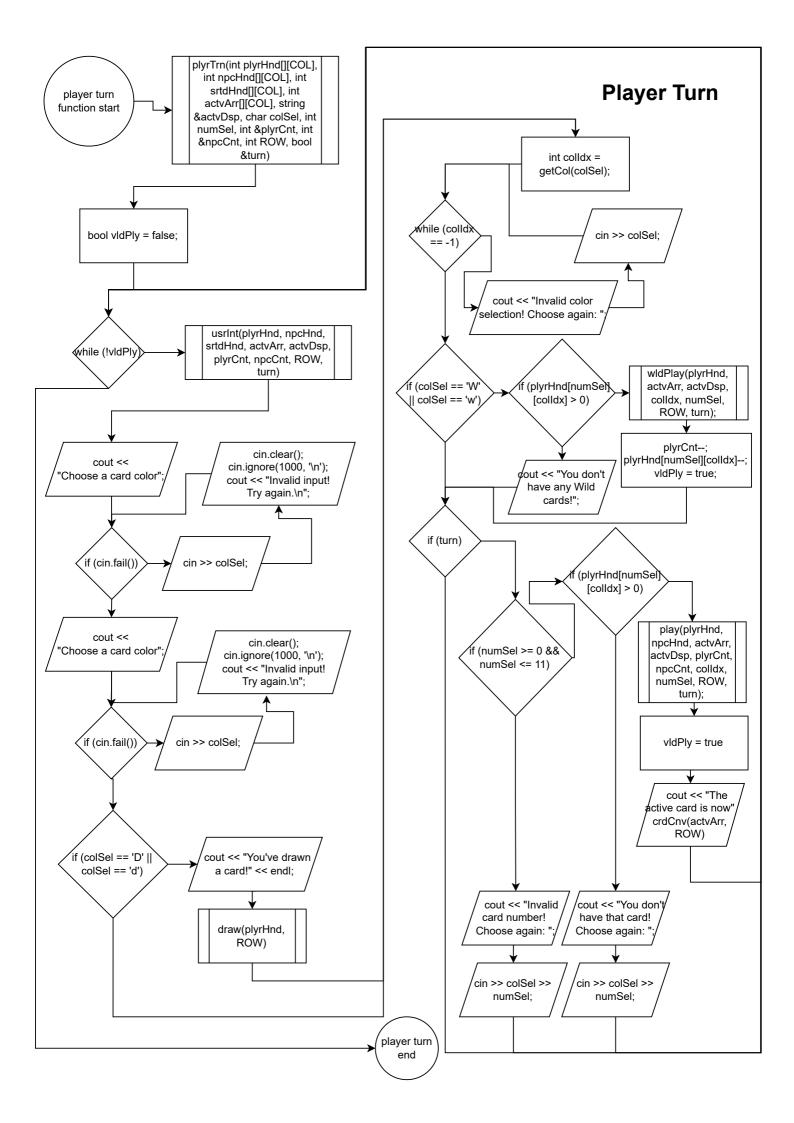


## Card Draw Function

Modular function that takes in a passed player hand array and constant int value for 2D array



at the given coordinate



## User Interface Function

