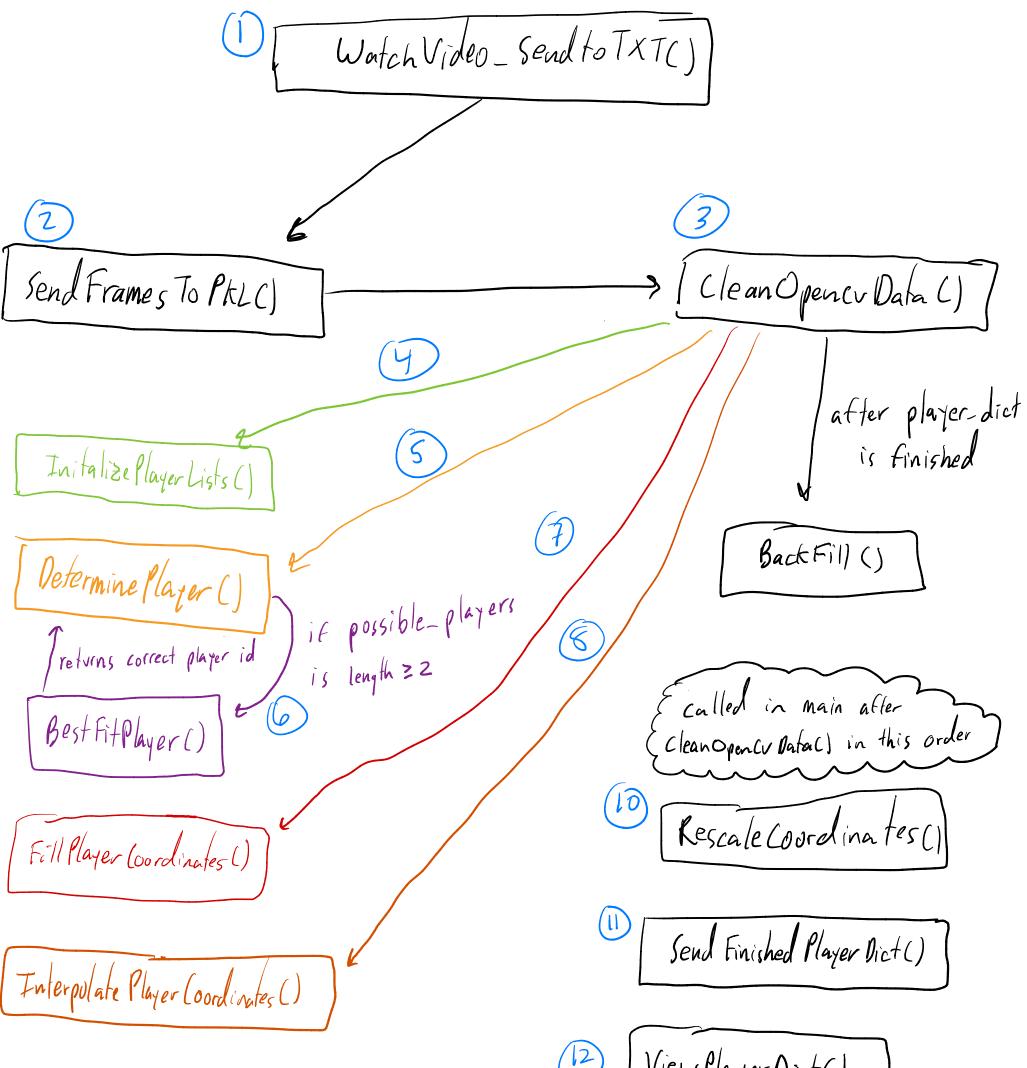
Process Video ()



(5) • Is sent player coords, id, and frame num Droops through video and calculates center coords of moving objects sends these coords to -txt file · Determines who the courts belong to based on distance 6 Determines the correct 2. 100ps through video and player for coords based on stores frames in a list which direction players are -> sends this list of PKL moving - List is used to watch (7) • fills in gaps in frames between consecutive elements video in 601 of all player lists (3) Acts as "main()" for cleaning functions Fills in jumps in Coordinates
Smooths jumps in coordinates · Loops through txt file coords and sorts player coords into player lists  $\begin{bmatrix} c_{1} 00, 200 & c_{1} \\ 00, 200 & c_{2} \\ c_{1} 00, 200 & c_{1} \\ c_{1} 00, 200 & c_{1} \\ c_{1} 50, 250 & c_{2} \\ c_{2} \\$ -> calls all necessary functions to sort player 9 Fills in all missing frames before player was initally tracked coords to correct list all the way to frame 1 - Ex: it player started moving at frame 30, this kinetion creates 29 new spots for · Adds new spot at the end frame num 1-29 (these spots are filled in with position found at frame 30) of each player list w/ that players most recent courds 10) Rescales coords (in player-dict) to size 0.25
for watching in GUI (mattes sure all player list is the same size) (12) • Sends player-dict to .txt file • sends finished player dict (stores all finish player) • . ison file for 1-11T lists to json file for GUI for viewing