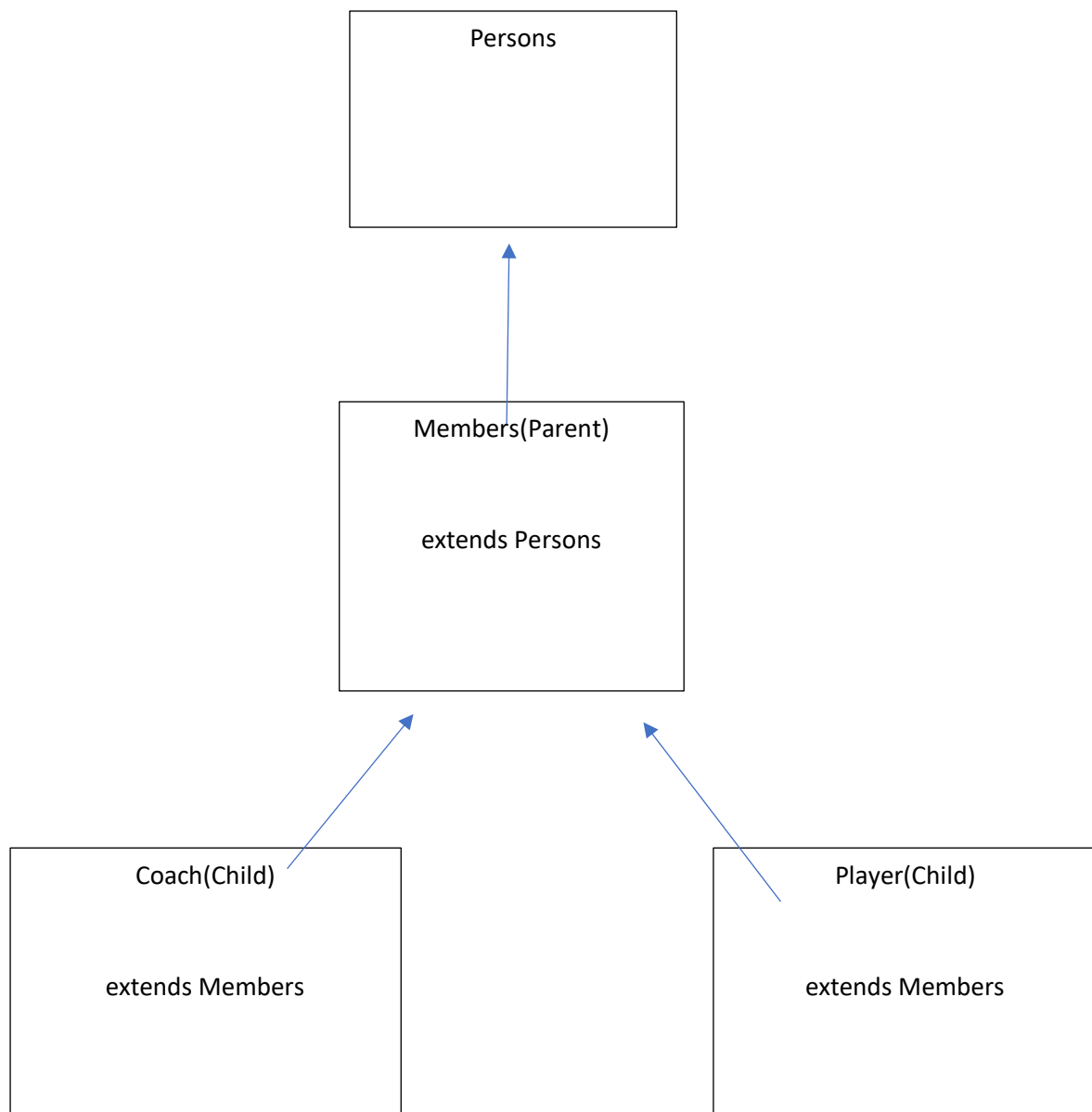


## Criterion B: Design

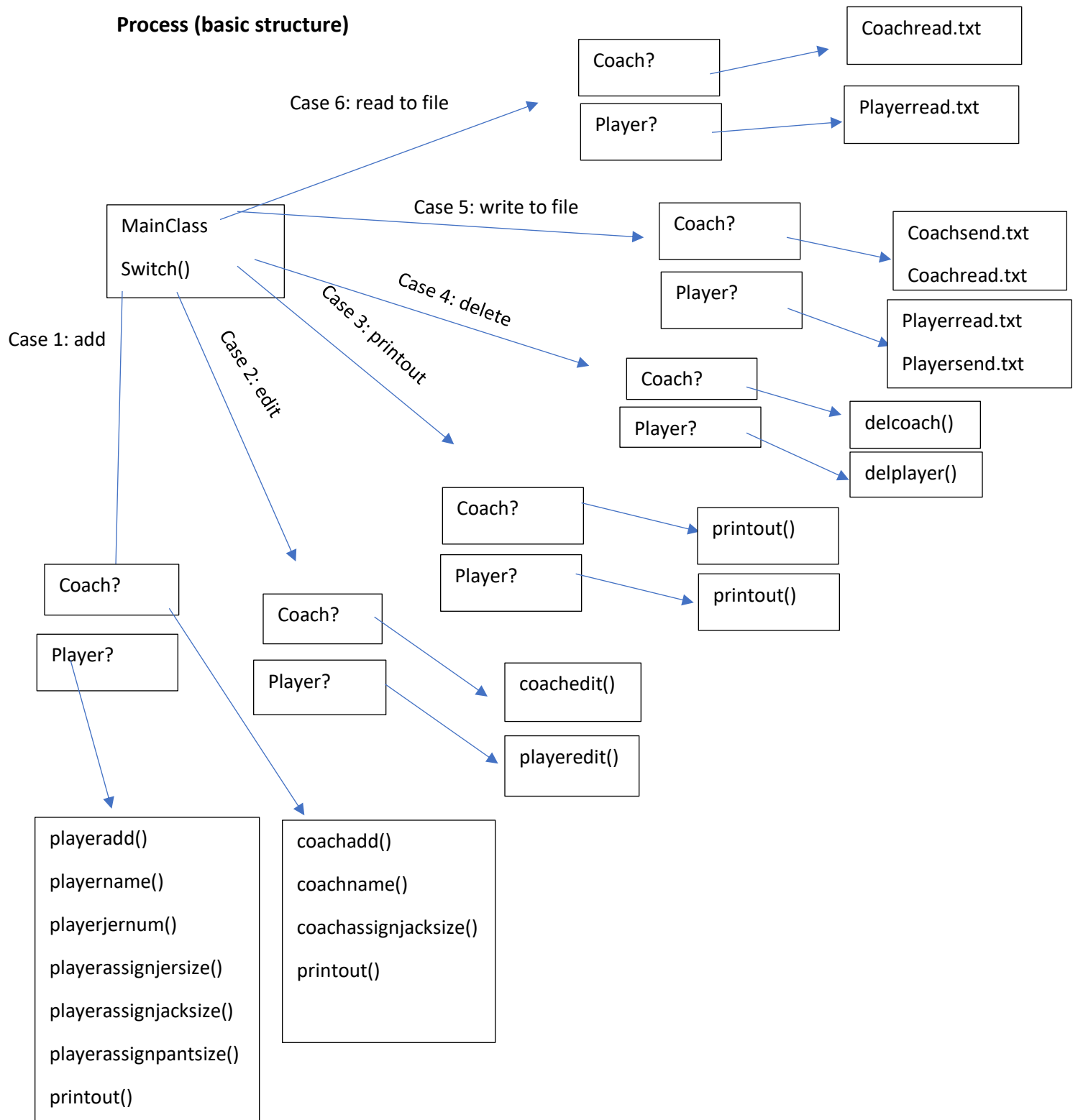
### Local Soccer Club Program (UML Diagram)



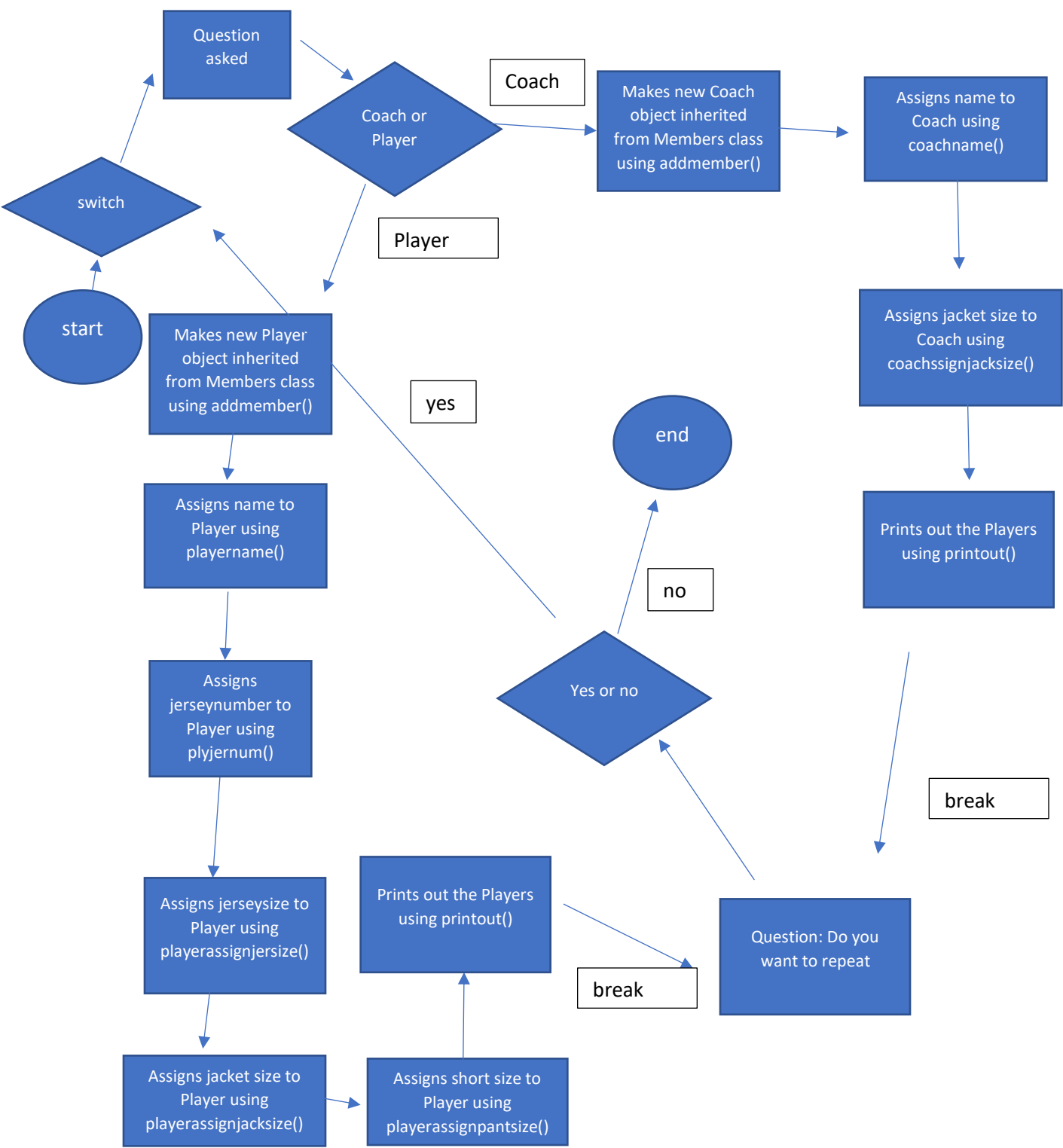
Overview of design:



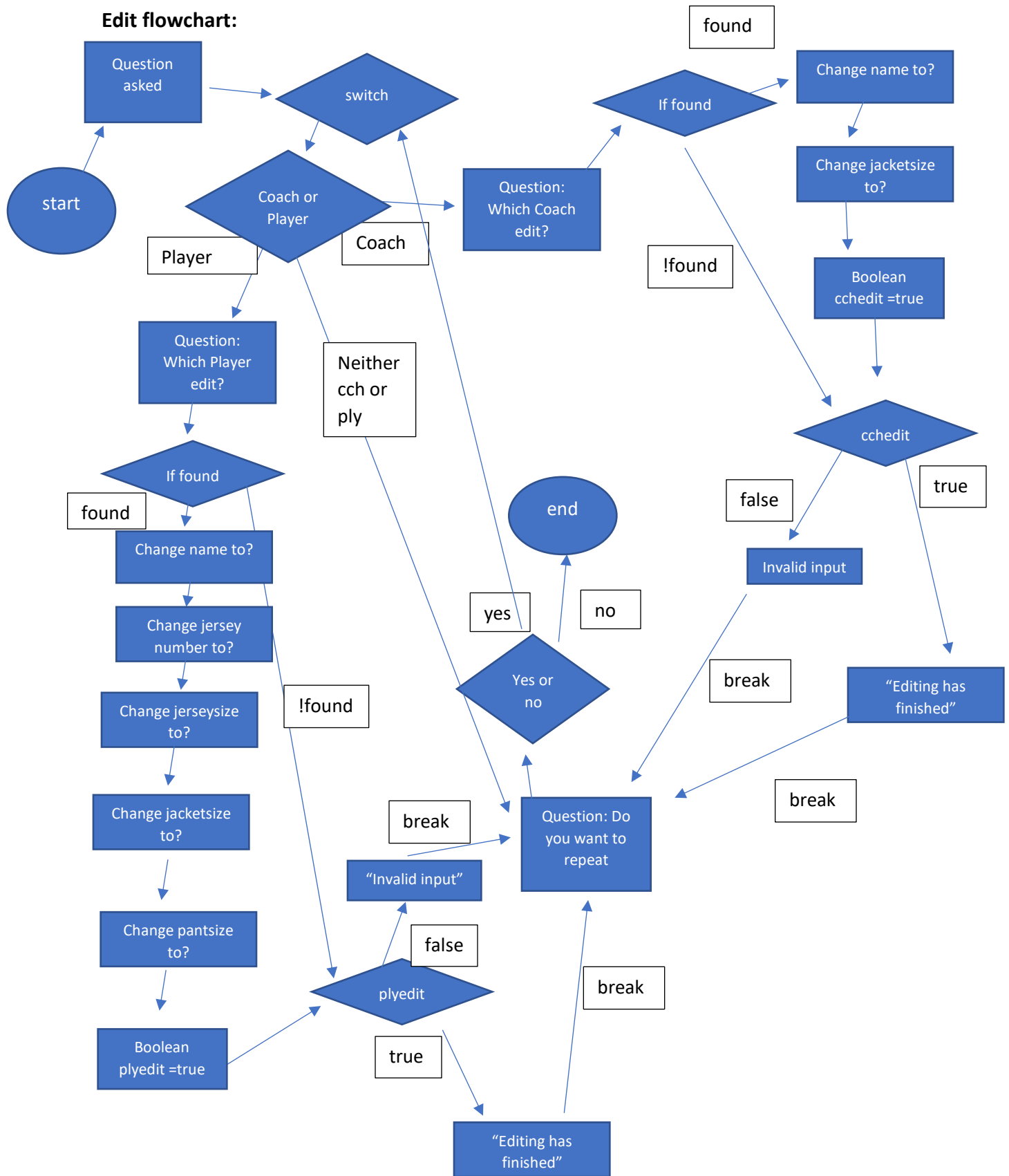
## Process (basic structure)



Adding flowchart:



# Edit flowchart:



Pseudocode for edit() function (flowchart above)

askname = readline

For i=0 to i<userinput(global variable)

    If askname = name in memb obj array

        Then newname, jersize = readline and store in memb[i] (replaces old value with new value)

        Bool Edit = true

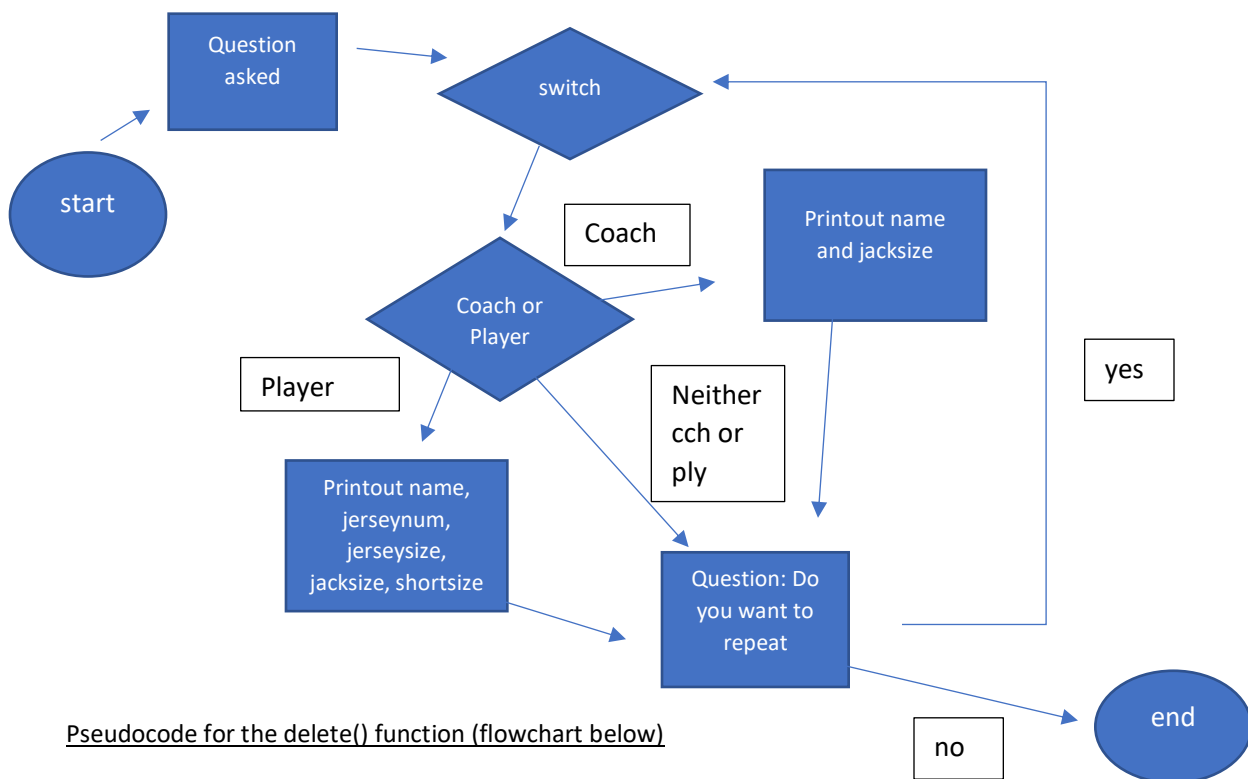
    If Edit=true

        Then output "editing finished"

    Else

        Output "you did not enter name correctly"

**Printout flowchart:**



Pseudocode for the delete() function (flowchart below)

askname = readline

For i=0 to i<userinput(global variable)

    If askname = name in memb obj array

        Then prevname = memb[userinput-1] (last position)

        memb[i] = prevname (copy the value at last position to current position in loop)

        userinput - 1 (since last element is duplicated it must be deleted)

        namecurrent-1(decrement counter for name)

        (same for all attributes of object)

        Bool Delete = true

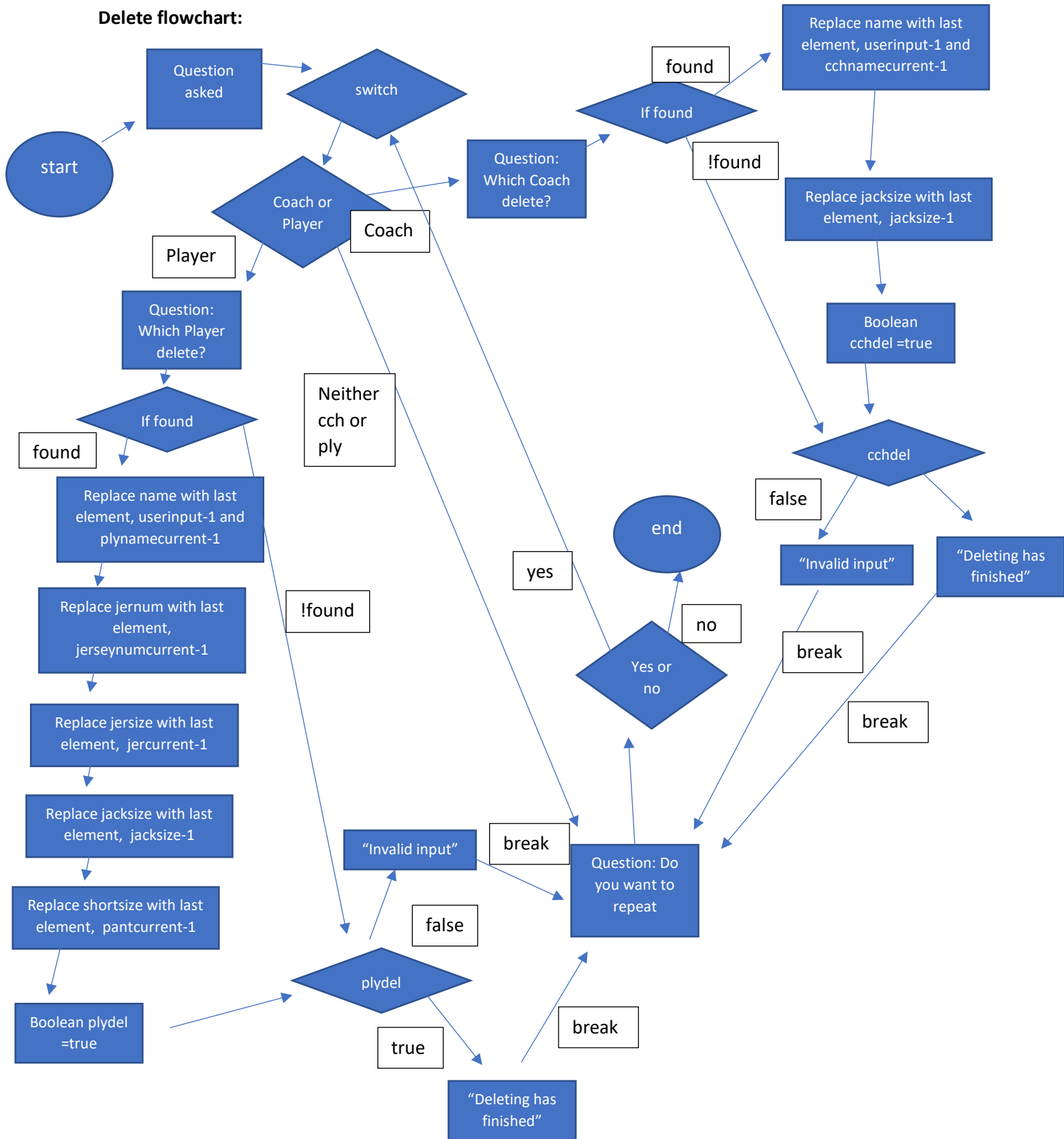
    If Edit=true

        Then output "delete finished"

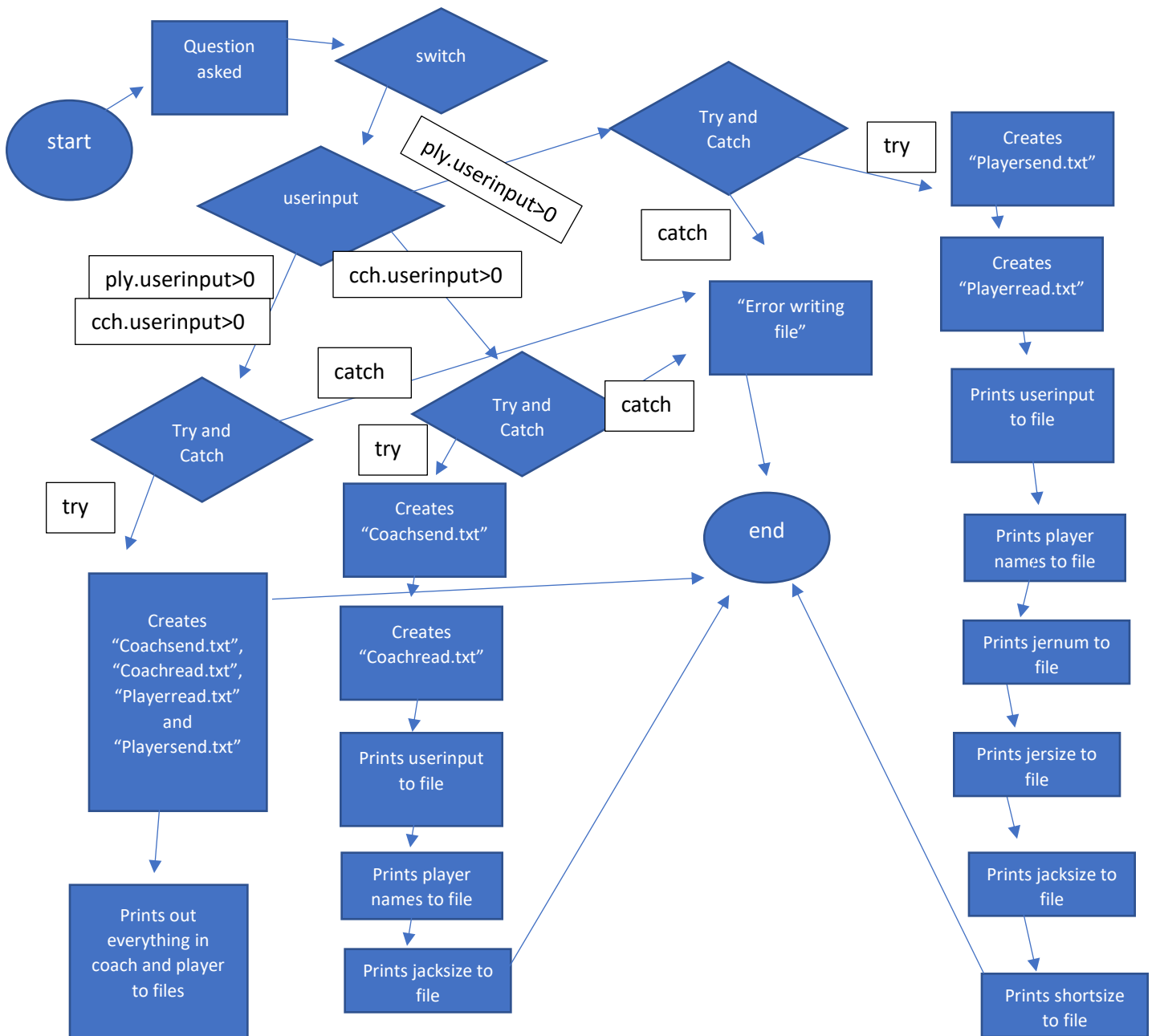
    Else

        Output "you did not enter name correctly"

# Delete flowchart:

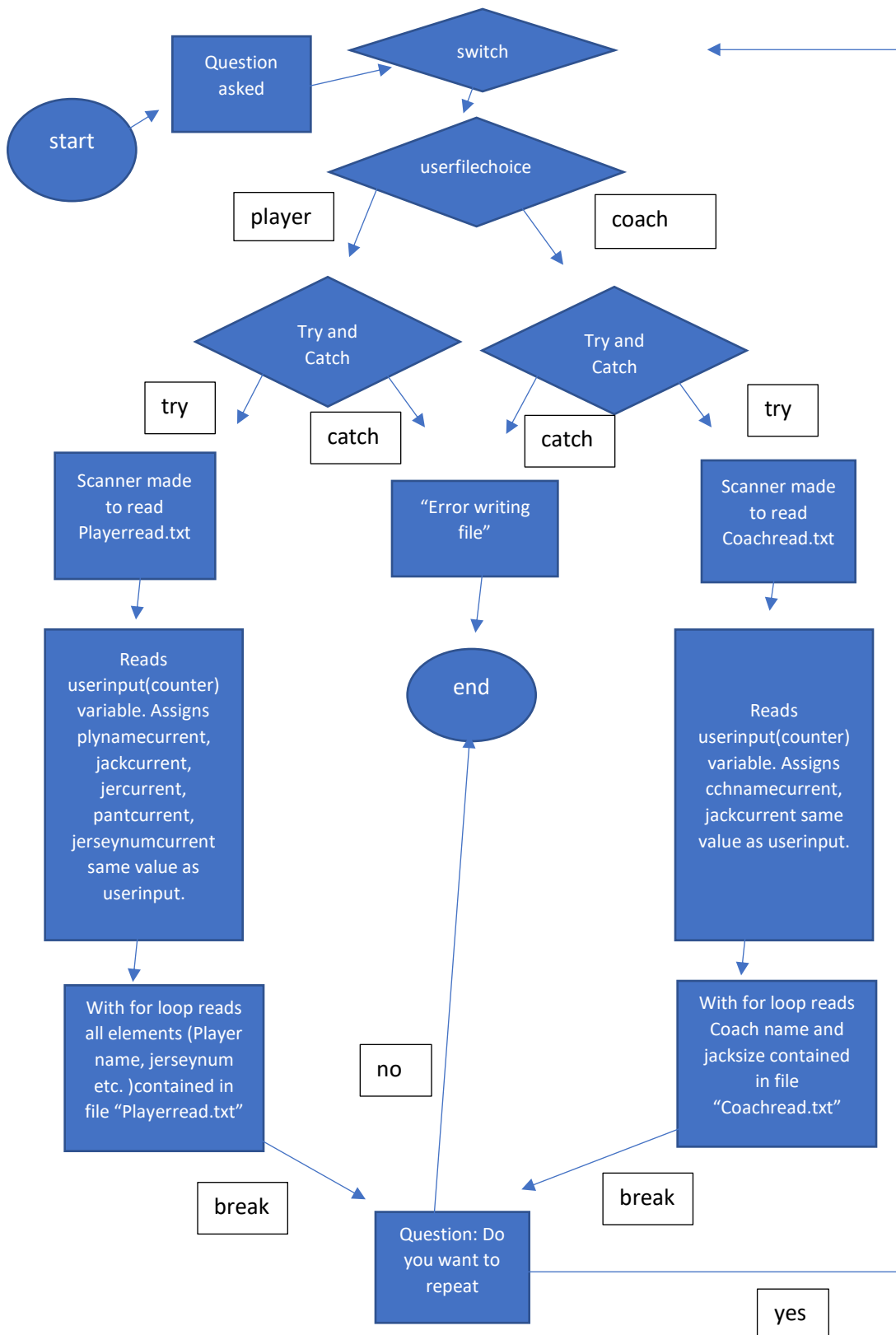


# Write to file flowchart:





### Read from file flowchart:



## Schedule for developing product

The product will be divided into three sections:

### Section 1:

Firstly, the base class that is to be made is the Members class. Once, the functions and variables for this class is defined then all the other classes will fall into course. After this, the Persons class will be created that will contain the accessor and mutator methods.

### Section 2:

Create the Coach and Player classes. This will become easier because the Members class will have already been created.

### Section 3:

Create the Mainclass which will only govern which class the program will go to, based on the input of the user. This is required for the running of the program since classes are just "templates". Therefore the test plan must be run after the Mainclass is created.

## Test Plan

| Action Test   | Way of testing   |
|---|--|
| Do while: test if the program goes into the loop  | Run the program and see if the program prints a sample test output in the do while statement. Then, see if the program asks "do you want to repeat" at the end   |
| Case 1: test if userchoice = "player" and userchoice = "coach" works                    | Type player or coach and see if error statement is produced  |
| Case 1: see if program can add members, names, jersey num, jersize, jacksize, shortsize | See if program can add members. To do this printline("Created member at i") in the for loop. This will show if and where member is created. Also, see if all the other functions are working in Case 1(player) Then, try the same for coach as well. |
| Case 2: test if userchoice = "player" and userchoice = "coach" works                    | Same (above)   |
| Case 2: see if edit case is working   | See if editply and editcch are evaluating to true in the for loop. This checks if the program goes through the edit() function. Also, see if userinput matches all the other counter variables (ex. jackcurrent) by doing a printline.               |
| Case 3: see if printout() function works  | Do a printline in the printout() function to see if program is printing correctly  |
| Case 4: test if userchoice = "player" and userchoice = "coach" works                    | Same(above)  |

|                              |  |
|------------------------------|--|
| Case 4: test the delete case | See if delply and delcch are evaluating to true in the for loop. Also, see if userinput matches the other counter variables.                                     |
| Case 5: Are files written    | Printline at the end of the file write to see if the whole function has been executed. Look at the workspace and see if file has been created with all elements. |
| Case 6: Are files read       | Printline at the end of file saying "got it from player" and if no exception is thrown then file is read. Try a printout().                                      |