```
Philip Pesic
Week 9
October 16 2022
Week 9 Prog 1
Step 1 - Define 2 classes. Above int main()
Create a class called PLAYER
              string name
              getName()
              setName( string )
              default constructor - set name to 'Unknown'
              parm constructor - set name to one name on list of names below
Create a class Called TEAM
              Use pointers: player * ptrPlayer1.... * ptrPlayer7 ... OR ... Use an Array of
players.... ( Hard way or Easy - You choose )
              (Aggregation - use one pointer or index for each player)
              printAllNames()
              default constructor - assign each pointer to a player to null/ or array player to
unassigned...
Step 2 - Declare instances of classes. In int main()
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Instantiate 7 players
       Use parm constructor on the first 4 player names
       Use the default constructor then use setNames on the last 3 player names
       Use the following names: George, Ivan, Hang, Tuyet, Sue, Victoria and Tumbo
Instantiate two teams: basket ball Team, Soccer Team
Step 3 - Use classes. In int main()
Set the last 3 player names using setNames
Add any 5 of the player to the basket ball team, one at a time (5 statements - pass player pointer)
Add all 7 of the players to the soccer team (7 statements - pass player pointer)
Print out all the members' names in the basket ball team, use printAllNames()
Print out all the members' names in the soccer team, use printAllNames()
Delete the Basket ball team
Print out all names in the Basket Ball team
Delete the Soccer Team.
Print out all player names.
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Delete each player
//
// main.cpp
// Week 9 Prog 1
//
// Created by Pippo Pesic on 10/12/22.
//
#include <iostream>
#include <string>
using namespace std;
class Player {
       string name;
public:
       string getName() {
       return name;
       }
       void setName (string inName) {
```

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Philip Pesic
Week 9
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       name = inName;
       }
       Player() {
       name = "";
       }
       Player(string inName) {
       name = inName;
       }
};
class Team {
public:
       Player* pPlayerArr[7];
       void printPlayers() {
       for (int i = 0; i < 7; i++) {
       if (pPlayerArr[i] != NULL) {
              cout << i+1 << " " << pPlayerArr[i]->getName() << endl;
       }
```

```
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      Team() {
       for (int i = 0; i < 7; i++) {
      pPlayerArr[i] = NULL;
       }
       }
};
int main() {
       Player* pPlayer1 = new Player("George");
       Player* pPlayer2 = new Player("Ivan");
       Player* pPlayer3 = new Player("Hang");
       Player* pPlayer4 = new Player("Tuyet");
       Player* pPlayer5 = new Player();
       pPlayer5->setName("Sue");
       Player* pPlayer6 = new Player();
       pPlayer6->setName("Victoria");
       Player* pPlayer7 = new Player();
       pPlayer7->setName("Tumbo");
```

```
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       Team* pBasketballTeam = new Team();
       Team* pSoccerTeam = new Team();
       pBasketballTeam->pPlayerArr[0] = pPlayer1;
       pBasketballTeam->pPlayerArr[1] = pPlayer2;
       pBasketballTeam->pPlayerArr[2] = pPlayer3;
       pBasketballTeam->pPlayerArr[3] = pPlayer4;
       pBasketballTeam->pPlayerArr[4] = pPlayer5;
       cout << "Basketball players:" << endl;</pre>
       pBasketballTeam->printPlayers();
       cout << endl << endl;
       cout << "Soccer players:" << endl;</pre>
       pSoccerTeam->pPlayerArr[0] = pPlayer1;
       pSoccerTeam->pPlayerArr[1] = pPlayer2;
       pSoccerTeam->pPlayerArr[2] = pPlayer3;
       pSoccerTeam->pPlayerArr[3] = pPlayer4;
       pSoccerTeam->pPlayerArr[4] = pPlayer5;
       pSoccerTeam->pPlayerArr[5] = pPlayer6;
```

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       pSoccerTeam->pPlayerArr[6] = pPlayer7;
       pSoccerTeam->printPlayers();
       cout << endl << endl;
       delete pBasketballTeam;
       cout << "Basketball players after team deletion:" << endl;</pre>
       cout << pPlayer1->getName() << endl;</pre>
       cout << pPlayer2->getName() << endl;</pre>
       cout << pPlayer3->getName() << endl;</pre>
       cout << pPlayer4->getName() << endl;</pre>
       cout << pPlayer5->getName() << endl;</pre>
       cout << endl << endl;
       delete pSoccerTeam;
       cout << "Soccer players after team deletion:" << endl;</pre>
       cout << pPlayer1->getName() << endl;</pre>
       cout << pPlayer2->getName() << endl;</pre>
       cout << pPlayer3->getName() << endl;</pre>
```

```
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Week 9
October 16 2022
Week 9 Prog 1
       cout << pPlayer4->getName() << endl;</pre>
       cout << pPlayer5->getName() << endl;</pre>
       cout << pPlayer6->getName() << endl;</pre>
       cout << pPlayer7->getName() << endl;</pre>
       cout << endl << endl;
       delete pPlayer1;
       delete pPlayer2;
       delete pPlayer3;
       delete pPlayer4;
       delete pPlayer5;
       delete pPlayer6;
       delete pPlayer7;
       cout << "Philip Pesic 10/16/22" << endl;
       return 0;
```

}

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Week 9

October 16 2022

Week 9 Prog 1



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Week 9

October 16 2022

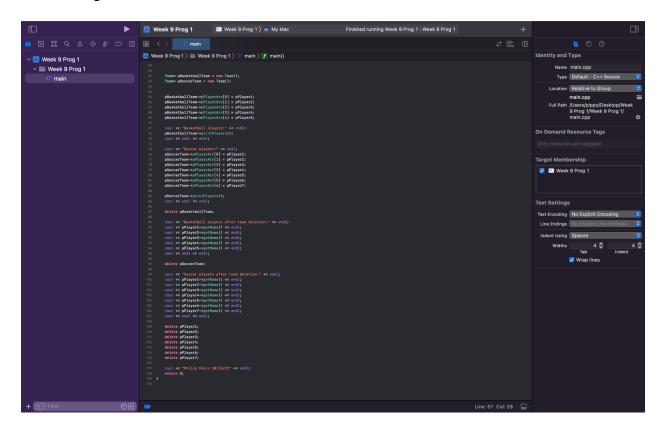
Week 9 Prog 1

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Week 9

October 16 2022

Week 9 Prog 1



I learned: how to utilize aggregation to relate parts of classes to classes while keeping them independent