

- Játékosok feladat

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class Player:
    def __init__(self,name,height,power,speed,acceleration):
        self.name = name
        self.height = height
        self.power = power
        self.speed = speed
        self.acceleration = acceleration
    def display(self):
        print self.name, self.height, self.power, self.speed, self.acceleration

player1 = Player("AB", 10, 14, 100, 10)
print "Player1:"
player1.display()

class Team:
    def __init__(self,listOfPlayers):
        self.listOfPlayers = listOfPlayers
    def addPlayer(self,player):
        self.listOfPlayers.append(player)
    def displayPlayers(self):
        for player in self.listOfPlayers:
            player.display()

player2 = Player("BC", 10, 15, 10, 3)
player3 = Player("CD", 9, 14, 100, 2)
player4 = Player("EF", 8, 20, 800, 1)
team1 = Team([player1,player2,player3,player4])
print "Team1:"
team1.displayPlayers()

class PlayerRank:
    def __init__(self,team):
        self.setTeam(team)
    def setTeam(self,team):
        self.team = team
    def getBestPlayer(self):
        bestPlayer = self.team.listOfPlayers[0]
        for player in self.team.listOfPlayers:
            betterPlayer = self.getBetterPlayer(player,bestPlayer)
            if(betterPlayer!=bestPlayer):
                bestPlayer = betterPlayer
        return bestPlayer
    def getBetterPlayer(self,player1,player2):
        pass

class PlayerRankSpeed(PlayerRank):
    def getBetterPlayer(self,player1,player2):
        if player1.speed > player2.speed:
            return player1
        else:
            return player2

class PlayerRankAcceleration(PlayerRank):
    def getBetterPlayer(self,player1,player2):
        if player1.acceleration > player2.acceleration:
            return player1
        else:
            return player2

playerRank = PlayerRankSpeed(team1)

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Informatika2-2014/FeladatPlayers

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player = playerRank.getBestPlayer()
player.display()

player5 = Player("GH", 10, 15, 10, 3)
player6 = Player("IJ", 9, 14, 100, 2)
player7 = Player("KL", 8, 20, 700, 1)
team2 = Team([player5,player6,player7])
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