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                                                   Game.py
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    ********************************
2
     FILE:
             Game
 3
 4
     AUTHOR:
                Peter Campbell
 5
 6
     ASSIGNMENT: Laboratory 6
 7
 8
              11/26/2012
     DATE:
 9
10
     DESCRIPTION: This program creates the game cribbage.
11
12
    **********************************
13
 14
 15
    from cs110graphics import *
 16
    import random
 17
 18
    #initiates and creates methods for the card class
 19
    class Card(Group, EventHandler):
20
        def __init__(self, game, suit, rank, value, faceFileName, backFileName):
21
             Group.__init__(self)
 22
             EventHandler.__init__(self)
 23
             self._suit = suit
 24
             self._value = value
 25
             self._rank = rank
 26
             self._player = None
 27
             self._game = game
 28
             self._faceImage = Image(faceFileName)
 29
             self._backImage = Image(backFileName)
 30
             self._selected = False
 31
 32
             # initially, the card is face down:
 33
             self._upImage = self._backImage
 34
             self._downImage = self._faceImage
 35
             self.add(self._upImage)
 36
             self.add(self._downImage)
 37
             self.addHandler(self)
 38
 39
         def handleMouseRelease(self, button, loc):
 40
             " " "handles the mouse release on a card depending on whose turn it is and
 41
        what part of the game it is " " "
 42
             if self._game.getCurrentPlayer() == 0:
 43
                 hand = self._game.getPlayerA().getHand()
 44
             elif self._game.getCurrentPlayer() == 1:
 45
                 hand = self._game.getPlayerB().getHand()
 46
 47
             if self in hand:
 48
                 if self._game.getGamePlay() == 'crib':
 49
                      self._game.cribSelection(self)
 50
                  elif self._game.getGamePlay() == 'count':
 51
                      self._game.countSelect(self)
 52
 53
         def setPlayer(self, player):
 54
             self._player = player
 55
 56
         def getPlayer(self):
 57
             return self._player
 58
 59
         def getRank(self):
 60
             return self._rank
 61
 62
         def getValue(self):
 63
```

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             return self._value
65
        def getSuit(self):
66
             return self._suit
67
68
        def size(self):
69
             return self._upImage.size()
70
71
        def isSelected(self):
72
             return self._selected
73
74
        def flip(self):
75
             self.remove(self._upImage)
76
             self.remove(self._downImage)
77
             self._upImage, self._downImage = self._downImage, self._upImage
 78
             self.add(self._upImage)
 79
             self.add(self._downImage)
 80
 81
         def changeDepth(self, depth):
 82
             self.setDepth(depth)
 83
 84
    #initiates and creates methods for the deck class
 85
    class Deck(Group):
 86
         def __init__(self, game):
 87
             Group.__init__(self)
 88
             self._deckImage = Image('Cards/back.gif', Point(50, 225))
 89
             self._deckImage.setDepth(30)
 90
             self.add(self._deckImage)
 91
 92
             #rank is used to order the cards so 11 is a jack 12 is a queen and 13 is
 93
             #a king. Value is the point value of that card ie face cards are 10
 94
             rankNames = ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13']
 95
                              10', '11',
 96
                                2, 3, 4, 5, 6, 7, 8, 9, 10, 10, 10, 10]
             valueNames = [1,
 97
                                     'diamonds', 'hearts', 'spades']
             suitNames = ['clubs',
 98
             folderName = 'Cards/'
 99
             backName = 'Cards/back.gif'
 100
             self._game = game
 101
             self._cards = []
 102
             for suit in suitNames:
 103
                  for i in range(len(rankNames)):
 104
                       card = Card(self._game, suit, rankNames[i], valueNames[i],
 105
                                    folderName + suit[0] + rankNames[i] + '.gif',
 106
                                    backName)
 107
                       self._cards.append(card)
 108
 109
         def deal(self):
 110
              card = self._cards.pop()
 111
              return card
 112
 113
         def shuffle(self):
 114
              random.shuffle(self._cards)
 115
 116
 117
     #initiates and creates methods for the Board class
 118
     class Board (Group):
 119
         def __init__(self):
 120
              Group.__init__(self)
 121
              #self._pegA1
 122
              #self._pegA2
 123
              #self._pegB1
 124
              #self._pegB2
 125
              self._holeCentersA = []
 126
```

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            self._holeCentersB = []
128
             #The following code adds the holes to the board in order so that the
129
             #pegs can move to their center points depending on how many points the
130
             #player has.
131
             for i in range (36):
132
                 self._holeCentersA.append(Point(200 + (22 * i), 340))
133
             for i in range(36):
134
                 self._holeCentersB.append(Point(200 + (22 * i),
135
             self._holeCentersA = self._holeCentersA + [Point(1008,
                                                                          342),
136
                                                            Point(1053, 362),
137
                                                            Point(1088, 393),
138
                                                            Point(1098, 434),
139
                                                            Point(1098, 460),
140
                                                            Point(1088, 501),
141
                                                            Point(1053, 532),
142
                                                            Point(1008, 552)]
143
             self._holeCentersB = self._holeCentersB + [Point(1006, 365),
144
                                                            Point(1041, 380),
145
                                                            Point (1069, 405),
146
                                                            Point(1076, 434),
147
                                                            Point (1076, 460),
148
                                                            Point (1069, 489),
149
                                                            Point(1041, 514),
150
                                                            Point(1006, 529)]
151
             for i in range(36):
152
                 self._holeCentersA.append(Point(200 + (22 * i), 553))
153
             for i in range(36):
154
                 self._holeCentersB.append(Point(200 + (22 * i), 530))
155
             self._holeCentersA = self._holeCentersA + [Point(170, 550),
156
                                                             Point(142, 526),
157
                                                             Point(130, 494),
158
                                                             Point(142, 462),
 159
                                                             Point(170, 438)]
160
             self._holeCentersB = self._holeCentersB + [Point(178, 530),
161
                                                             Point(162, 515),
 162
                                                             Point (152, 494),
163
                                                             Point (162, 473),
 164
                                                             Point(178, 458)]
 165
             for i in range(35):
 166
                  self._holeCentersA.append(Point(200 + (22 * i), 435))
 167
             for i in range(35):
 168
                  self._holeCentersB.append(Point(200 + (22 * i), 458))
 169
             self._holeCentersA.append(Point(1015, 447))
 170
             self._holeCentersB.append(Point(1015, 447))
 171
 172
             #creates the image of the board itself and its circles
 173
             self._board = Image('Cards/boardnc.jpg', Point(600, 450))
 174
             self._board.resize(1100, 300)
 175
             self._board.setDepth(40)
 176
             for i in range(len(self._holeCentersA)):
 177
                  circle = Circle(7, self._holeCentersA[i])
 178
                  circle.setDepth(30)
 179
                  circle.setFillColor('black')
 180
                  self.add(circle)
 181
             for i in range(len(self._holeCentersB)):
 182
                  circle = Circle(7, self._holeCentersB[i])
 183
                  circle.setDepth(30)
 184
                  circle.setFillColor('black')
 185
                  self.add(circle)
 186
             self.add(self._board)
 187
 188
     #initiates and creates methods for the ReadyButton class
 189
```

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    class ReadyButton(Group, EventHandler):
              _init__(self, game):
        def
191
             Group.__init__(self)
192
             EventHandler.__init__(self)
193
             self._game = game
194
             self._button = Square(80, Point(0, 0))
195
             self._button.setFillColor('gold')
196
             self.add(self._button)
197
             self._txt = Text('Discard', Point(0, 0))
198
             self.\_go = False
199
             self._timesGoClicked = 0
200
             self._txt.setDepth(30)
201
             self.add(self._txt)
202
             self.setDepth(40)
203
             self.addHandler(self)
204
205
         #handles to mouse releas of the button depending on what the current
206
         #gameplay is and what the button is being used for at that time
207
         def handleMouseRelease(self, button, loc):
208
             if self._game.getGamePlay() == 'crib':
209
                  self._game.moveToCrib()
210
             elif self._go:
211
                  #the second click of go give a point to the player who clicked
212
                  if self._timesGoClicked == 1:
213
                      self._game.clearCounting()
214
                      self._game._countingScore = 0
215
                      self.\_timesGoClicked = 0
216
                      if self._game.getCurrentPlayer() == 0:
217
                           self._game.getPlayerA().addScore(1)
218
                      else:
219
                           self._game.getPlayerB().addScore(1)
220
                      self.update()
221
                      self._game.changePlayer()
222
                  else:
223
                      self.update()
224
                      self._game.changePlayer()
225
                      self._timesGoClicked += 1
226
             else: #self._game.getGamePlay() == 'count':
227
                  self. timesGoClicked = 0
 228
                  self._game.counting()
 229
 230
 231
 232
 233
         def update(self):
 234
              " " " Changes the button depending on gameplay and the cards in players
 235
        hands during counting " " "
 236
              if self._game.getGamePlay() == 'crib':
 237
                  if self._game.getCurrentPlayer() == 0:
 238
                       self._game.getReadyButton().moveTo(Point(200, 100))
 239
                  elif self._game.getCurrentPlayer() == 1:
 240
                       self._txt.setTextString('Play')
 241
              elif self._game.getGamePlay() == 'count':
 242
                  if self._game.getCurrentPlayer() == 0:
 243
                       self._game.getReadyButton().moveTo(Point(200, 100))
 244
                       self._txt.setTextString('Go!')
 245
                       self._go = True
 246
                       for card in self._game.getPlayerB().getHand():
 247
                           if card.getValue() + self._game.getCountingScore() <= 31:</pre>
 248
                                self._txt.setTextString('Play')
 249
                                self._timesGoClicked = 0
 250
                                self._go = False
 251
                  elif self._game.getCurrentPlayer() == 1:
 252
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                      self._game.getReadyButton().moveTo(Point(700, 700))
                      self._txt.setTextString('Go!')
254
                      self._go = True
255
                      for card in self._game.getPlayerA().getHand():
256
                           if card.getValue() + self._game.getCountingScore() <= 31:</pre>
257
                               self._txt.setTextString('Play')
258
                               self._timesGoClicked = 0
259
                               self._go = False
260
261
    #initiates and creates methods for the Player class
262
    class Player:
263
        def __init__(self, name, loc):
264
             self._name = name
265
             self._loc = loc
266
             self.\_score = 0
267
             self._txt = Text(str(self._name + ':' + str(self._score)), self._loc,
268
269
             self._txt.setDepth(30)
270
             self._txt.setTextColor('black')
271
             self._hand = []
272
273
         def addTo(self, container):
274
             container.add(self._txt)
275
276
         def addCard(self, card):
277
             self._hand.append(card)
278
279
         def removeCard(self, card):
280
             self._hand.remove(card)
281
282
         def getHand(self):
283
             return self._hand
284
285
         def assign(self, lst):
286
             self._hand = 1st
 287
             #return self._hand
 288
 289
         def addScore(self, points):
 290
             self._score = self._score + points
 291
             self._txt.setTextString(str(self._name + ':' + str(self._score)))
 292
 293
 294
         def getScore(self):
             return self._score
 295
 296
    def sortCards(cards):
 297
         newCards = []
 298
         for i in range(13):
 299
             for card in cards:
 300
                  if int(card.getRank()) == i + 1:
 301
                      newCards.append(card)
 302
         return newCards
 303
 304
     #This is the main class that contains the different types of gameplay that will
 305
     #be determined by eventhandlers.
 306
    class Game(Window):
 307
         def
             __init__(self):
 308
             Window.__init__(self, 1300, 800, 'darkgreen', 'Cribbage')
 309
              self._currentPlayer = 0
 310
              self._currentCrib = 0
 311
              self._currentGamePlay = 'crib'
 312
              self._cribImage = None
 313
              self._countingScore = 0
 314
              self._countScoreTxt = Text("The count is: " + str(self._countingScore),
 315
```

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                                      Point(900, 225), 25)
             self.add(self._countScoreTxt)
317
318
             board = Board()
319
             self.add(board)
320
321
             self._deck = Deck(self)
322
             self.add(self._deck)
323
             self._deck.shuffle()
324
325
             self._readyButton = ReadyButton(self)
326
             self._readyButton.moveTo(Point(900, 700))
327
             self.add(self._readyButton)
328
329
             #creates a list of the cards being counted and if the counting cards are
330
             #cleared they are dumoed into discard
331
             self._countingCards = []
332
             self._countingDiscard = []
333
             self. starterCard = None
334
335
             self._playerA = Player('PlayerA', Point(75, 700))
336
             self._playerA.addTo(self)
337
             self._playerB = Player('PlayerB', Point(75, 100))
338
             self._playerB.addTo(self)
339
340
             self._player = 1
341
342
             for i in range(6):
343
                 self._playerA.addCard(self._deck.deal())
344
                 self._playerA.getHand()[i].setPlayer(0)
345
             self._playerA.assign(sortCards(self._playerA.getHand()))
346
             self._width, _ = self._playerA.getHand()[0].size()
347
348
             for i in range(6):
349
                  self._playerA.getHand()[i].move(250 + self._width * (i + 1), 680)
350
                  self.add(self._playerA.getHand()[i])
351
 352
             for i in range(6):
 353
                  self._playerB.getHand().append(self._deck.deal())
 354
                  self._playerB.getHand()[i].setPlayer(1)
 355
             self._playerB.assign(sortCards(self._playerB.getHand()))
 356
 357
             for i in range(6):
 358
                  self._playerB.getHand()[i].move(250 + self._width * (i + 1), 100)
 359
                  self.add(self._playerB.getHand()[i])
 360
 361
             for i in range(6):
 362
                  self._playerA.getHand()[i].flip()
 363
 364
         def addCount(self, points):
 365
             self._countingScore = self._countingScore + points
 366
             self._countScoreTxt.setTextString("The count is: " + \
 367
                                                       str(self._countingScore))
 368
 369
         def getCountingScore(self):
 370
             return self._countingScore
 371
 372
         def getCurrentPlayer(self):
 373
             return self._currentPlayer
 374
 375
         def getReadyButton(self):
 376
             return self._readyButton
 377
 378
```

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        def getPlayerA(self):
379
             return self._playerA
380
381
        def getPlayerB(self):
382
             return self._playerB
383
384
        def changePlayer(self):
385
             #flip cards over
386
             if self._currentPlayer == 0:
387
                  hand1 = self._playerA.getHand()
388
                  hand2 = self._playerB.getHand()
389
             elif self._currentPlayer == 1:
390
                  hand1 = self._playerB.getHand()
391
                 hand2 = self._playerA.getHand()
392
393
             for i in range(len(hand1)):
394
                  hand1[i].flip()
395
             for i in range(len(hand2)):
396
                  hand2[i].flip()
397
398
             self._currentPlayer = (self._currentPlayer + 1) % 2
399
400
         def getGamePlay(self):
401
             return self._currentGamePlay
402
403
         def changeGamePlay(self):
404
             if self._currentGamePlay == 'crib':
405
                  self._currentGamePlay = 'count'
406
             elif self._currentGamePlay == 'count':
407
                  self._currentGamePlay = 'score'
408
                  self.scoring()
409
             elif self._currentGamePlay == 'score':
410
                  self._currentGamePlay = 'crib'
411
412
 413
         #crib selection
 414
         def cribSelection(self, card):
 415
             numberSelected = 0
 416
 417
              #checks whose turn it is and changes hand appropriately
 418
              if self._currentPlayer == 0:
 419
                  hand = self._playerA.getHand()
 420
              elif self._currentPlayer == 1:
 421
                  hand = self._playerB.getHand()
 422
 423
              for i in range(6):
 424
                  if hand[i].isSelected():
 425
                       numberSelected += 1
 426
              if numberSelected < 2 and not card.isSelected():</pre>
 427
                  card.move(0, -10)
 428
                  card._selected = True
 429
                  numberSelected += 1
 430
              elif card.isSelected():
 431
                  card.move(0, 10)
 432
                  card._selected = False
 433
              else:
 434
                  print "You already selected two cards"
 435
                  sleep(1)
 436
                  print ''
 437
 438
 439
         def moveToCrib(self):
 440
              if self._currentPlayer == 0:
```

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                 hand = self._playerA.getHand()
             elif self._currentPlayer == 1:
443
                 hand = self._playerB.getHand()
444
             crib = []
445
             cribIndex = []
446
             for i in range(6):
447
                 if hand[i].isSelected():
448
                     crib.append(hand[i])
449
                     cribIndex.append(i)
450
451
             #Need to remove the higher inedexed card first so that the lower indexed
452
             #card card still has the same index
453
             #CITE: Carson
454
             #DETAILS:
455
             self.remove(hand[cribIndex[1]])
456
             hand.remove(hand[cribIndex[1]])
457
             self.remove(hand[cribIndex[0]])
458
             hand.remove(hand[cribIndex[0]])
459
460
             self.rearrangeCards(hand)
461
             if self._currentPlayer == 0:
462
                 self._cribImage = Image('Cards/back.gif', Point(700, 225))
463
                 self.add(self._cribImage)
464
                 self._readyButton.update()
465
                 self.changePlayer()
466
             elif self._currentPlayer == 1:
467
                 self._readyButton.update()
468
                 self.changeGamePlay()
469
470
471
         #Rearrange cards so there are no gaps
472
        def rearrangeCards(self, hand):
473
             if hand == sortCards(self._playerA.getHand()):
474
                  for i in range(len(hand)):
475
                      hand[i].moveTo(Point(250 + self.\_width * (i + 1), 680))
476
                  self._playerA.assign(hand)
477
             elif hand == sortCards(self._playerB.getHand()):
478
                  for i in range(len(hand)):
479
                      hand[i].moveTo(Point(250 + self.\_width * (i + 1), 100))
480
                  self._playerB.assign(hand)
481
 482
 483
         #from card handler
 484
         def countSelect(self, card):
 485
             #Play a card in the middle of the board counts to 31 and adds score when
 486
             #applicable and moves player pegs"
 487
             numberSelected = 0
 488
             if self._currentPlayer == 0:
 489
                  hand = self._playerA.getHand()
 490
             elif self._currentPlayer == 1:
 491
                  hand = self._playerB.getHand()
 492
 493
             for i in range(len(hand)):
 494
                  if hand[i].isSelected():
 495
                      numberSelected += 1
 496
             if numberSelected < 1 and not card.isSelected():</pre>
 497
                  card.move(0, -10)
 498
                  card._selected = True
 499
                  numberSelected += 1
 500
             elif card.isSelected():
 501
                  card.move(0, 10)
 502
                  card._selected = False
 503
 504
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        #from readyButton handler
        def counting(self):
506
             leng = len(self._countingCards)
507
             if self._currentPlayer == 0:
508
                 for card in self._playerA.getHand():
509
                      if card.isSelected():
510
                          if card.getValue() + self._countingScore <= 31:</pre>
511
                               card.moveTo(Point(200 + (leng * self._width / 2), 225))
512
                               self._countingCards.append(card)
513
                               self.addCount(card.getValue())
514
                               if self._countingScore == 31:
515
                                    self._playerA.addScore(2)
516
                                    self.clearCounting()
517
                               self._playerA.removeCard(card)
518
                               self.rearrangeCards(self._playerA.getHand())
519
                               if len(self._playerB.getHand()) == 0 and \
520
                                        len(self._playerA.getHand()) == 0:
521
                                    self. playerA.addScore(1)
522
                                    self.clearCounting()
523
                                    self.changeGamePlay()
524
                                    return
525
                               elif len(self._playerB.getHand()) == 0:
526
                                    self.changePlayer()
527
                                    self._readyButton.update()
528
                                    self.changePlayer()
529
                                    return
530
                               else:
531
                                    self._readyButton.update()
532
                                    self.changePlayer()
533
                                    return
534
                           else:
535
                               print 'Invalid, that card would make the count over 31'
536
                               sleep(1.5)
537
                               print ''
538
             elif self._currentPlayer == 1:
540
                  for card in self._playerB.getHand():
541
                      if card.isSelected():
542
                           if card.getValue() + self._countingScore <= 31:</pre>
543
                                card.moveTo(Point(200 + (leng * self._width / 2), 225))
544
                                self._countingCards.append(card)
 545
                                self.addCount(card.getValue())
 546
                                if self._countingScore == 31:
 547
                                    self._playerB.addScore(2)
 548
                                    self.clearCounting()
 549
                                self._playerB.removeCard(card)
 550
                                self.rearrangeCards(self._playerB.getHand())
 551
                                if len(self._playerA.getHand()) == 0 and \
 552
                                         len(self._playerB.getHand()) == 0:
 553
                                    self._playerB.addScore(1)
 554
                                    self.clearCounting()
 555
                                    sleep(1)
 556
                                    self.changeGamePlay()
 557
                                elif len(self._playerA.getHand()) == 0:
 558
                                    self.changePlayer()
 559
                                    self._readyButton.update()
 560
                                    self.changePlayer()
 561
                                    return
 562
                                else:
 563
                                    self._readyButton.update()
 564
                                    self.changePlayer()
 565
                                    return
 566
                           else:
 567
```

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                              print 'Invalid, that card would make the count over 31'
                              sleep(1.5)
                              print ''
570
571
        def clearCounting(self):
572
             for card in self._countingCards:
573
                 card.moveTo(Point(-100, -100))
574
                 self._countingDiscard.append(card)
575
             self.addCount(-self._countingScore)
             self._countingCards = []
577
             self._readyButton.update()
578
579
        def scoring(self):
580
             #Puts original cards back into players hands
581
             self._readyButton.moveTo(Point(-100, -100))
582
             self._starterCard = self._deck.deal()
583
             self.add(self._starterCard)
584
             self._starterCard.flip()
585
             self._starterCard.moveTo(Point(150, 225))
586
             sleep(1)
587
588
             if self._starterCard.getRank() == 11:
589
                 if self._currentCrib == 0:
590
                      self._playerA.addScore(2)
591
                 elif self._currentCrib == 1:
592
                      self._playerB.addScore(2)
593
             for i in range(len(self._countingDiscard)):
594
                  if self._countingDiscard[i].getPlayer() == 0:
595
                      self._playerA.addCard(self._countingDiscard[i])
596
                 elif self._countingDiscard[i].getPlayer() == 1:
597
                      self._playerB.addCard(self._countingDiscard[i])
598
             self.rearrangeCards(sortCards(self._playerA.getHand()))
599
             self.rearrangeCards(sortCards(self._playerB.getHand()))
601
             if self._currentCrib ==
                                        0:
602
                  self._playerB.addCard(self._starterCard)
603
                  self.rearrangeCards(sortCards(self._playerB.getHand()))
 604
                  print
 605
                  self._playerB.addScore(self.count(self._playerB.getHand()))
 606
 607
             #def countCrib(self):
 608
 609
 610
         def count(self, hand):
 611
             total = 0
 612
             #check for nobs
 613
             for i in range(5):
 614
                  if hand[i].getRank() == 11 and hand[i].getSuit() == \
 615
                           self._starterCard.getSuit():
 616
                      total = total + 1
 617
             print str(total)
 618
             sleep(1)
 619
 620
             #check for pairs
 621
             for i in range(4):
 622
                  if hand[i].getRank() == hand[i+1].getRank():
 623
                       total = total + 2
 624
             print 'pairs' + str(total)
 625
             sleep(2)
 626
 627
              #check for 15's
 628
             for i in range (4):
 629
                  if hand[0].getValue() + hand[i+1].getValue() == 15:
 630
```

```
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                      total = total + 2
             for i in range(3):
632
                 if hand[1].getValue() + hand[i+2].getValue() == 15:
633
                      total = total + 2
634
             for i in range(2):
635
                  if hand[2].getValue() + hand[i+3].getValue() == 15:
636
                      total = total + 2
637
             if hand[0].getValue() + hand[4].getValue() == 15:
638
                  total = total + 2
639
640
             for i in range(3):
641
                  if hand[0].getValue() + hand[1].getValue() + \
642
                          hand[i+2].getValue() == 15:
643
                      total = total + 2
644
             for i in range(2):
645
                  if hand[0].getValue() + hand[2].getValue() + \
646
                          hand[i+3].getValue() == 15:
647
                      total = total + 2
648
             if hand[0].getValue() + hand[3].getValue() + hand[4].getValue() \
649
                      == 15:
650
                  total = total + 2
651
             for i in range(2):
652
                  if hand[1].getValue() + hand[2].getValue() + \
653
                           hand[i+3].getValue() == 15:
654
                      total = total + 2
655
             if hand[2].getValue() + hand[3].getValue() + hand[4].getValue() \
656
                      == 15:
657
                  total = total + 2
659
             print '15' + str(total)
660
             sleep(2)
661
662
             #check for flush
663
             clubs = 0
664
             diamonds = 0
 665
             hearts = 0
 666
             spades = 0
 667
             for i in range(5):
 668
                  if hand[i].getSuit() == 'clubs':
 669
                      clubs += 1
 670
                  elif hand[i].getSuit() == 'diamonds':
 671
                      diamonds += 1
 672
                  elif hand[i].getSuit() == 'hearts':
 673
                      hearts += 1
 674
                  elif hand[i].getSuit() == 'spades':
 675
                      spades += 1
 676
             if clubs >= 4 or diamonds >= 4 or hearts >= 4 or spades >= 4:
 677
                  total = total + 4
 678
             print 'flush' + str(total)
 679
             sleep(2)
 680
 681
              #check for runs
 682
          #
               for i in range(5):
 683
          #
                   for j in range(4):
 684
                        if hand[i].getValue()
 685
 686
              return total
 687
 688
 689
    def test():
 690
         Game()
 691
 692
     if __name__ == "__main__":
 693
```

Peter Campbell

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