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GuessNumber.py
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    Created on Feb 14, 2011
    @author: ola
    import random
    def get_status(secret,guess):
      Based on parameters secret and guess returns one of 'high', 'low', 'correct'
      e.g., if secret < guess returns 'high'
15
         if secret == guess:
              return "correct"
         if secret < guess:</pre>
              return "high"
         return "low"
    def play_game_computerguess():
      plays a game in which the computer guesses the human player's number
25
       _{MAX} = 100
      low = 1
      high = \_MAX
      guess\_count = 0
30
      print "I will guess your number, you answer [h]igh, [l]ow, [c]orrect"
      print "start by thinking of a number between 1 and ",_MAX
      answer = 'none'
      while answer[0] != 'c':
35
        guess = (low+high)/2
        guess_count += 1
        print "I guess ", guess
        print "[h]igh,[l]ow,[c]orrect> ",
        answer = raw_input()
        if answer[0] \stackrel{-}{=} 'h':
          high = guess-1
        elif answer[0] == '1':
          low = guess+1
45
        if low > high:
          print "either you made a mistake or I did, I give up!"
      print "it took me ",guess_count," tries to guess ",guess
    def play_game_humanguess():
         plays a game in which the human guesses the computer's number
55
          _{MAX} = 100
         secret = random.randint(1,_MAX)
         guess_count = 0
60
         print "I'm thinking of a number between 1 and ",_MAX
         guess = -1
         while secret != guess:
              print "guess> ",
65
              guess = raw_input()
              guess = int(guess)
              guess_count += 1
              status = get_status(secret,guess)
              if status == "low":
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                   print "you're guess is too low, try again"
              elif status == "high":
                   print "you're guess is too high, try again"
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        print "Great! it took you ", guess_count, " tries to guess ", secret
   if __name__ == "__main__":
       play_game_computerguess()
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