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COMPUTER CHOOSES A WORD: 10.0 POINTS

**Part B is dependent on your functions from <code>ps4a.py</code>, so be sure to complete <code>ps4a.py</code> before working on <code>ps4b.py</code> **

Now that you have completed your word game code, you decide that you would like to enable your computer (SkyNet) to play the game (your hidden agenda is to prove once and for all that computers are inferior to human intellect!) In Part B you will make a modification to the playHand function from part A that will enable this to happen. The idea is that you will be able to compare how you as a user suceed in the game compared to the computer's performance.

It is your responsibility to create the function [compChooseWord(hand, wordList)]. Pseudocode is provided in the file [ps4b.py].

If you follow the pseudocode, you'll create a computer player that is legal, but not always the best. Once you've implemented it following our approach, feel free to try your own approach! As much as we'd love to give you credit for making an improved <code>compChooseWord</code> function, we hope you can understand our automatic grading facilities are limited in their ability to accept differing solutions.

A Note On Runtime

You may notice that things run a bit slowly when the computer plays. This is to be expected - the wordList has 83667 words, after all!

However, don't worry about this issue when running your code in the checker below! We load a very small sample wordList (*much* smaller than 83667 words!) to avoid having your code time out.

Test Cases

Some test cases to look at:

```
>>> compChooseWord({'a': 1, 'p': 2, 's': 1, 'e': 1, 'l': 1}, wordList)
appels
>>> compChooseWord({'a': 2, 'c': 1, 'b': 1, 't': 1}, wordList)
acta
>>> compChooseWord({'a': 2, 'e': 2, 'i': 2, 'm': 2, 'r': 2}, wordList)
imamate
>>> compChooseWord({'x': 2, 'z': 2, 'q': 2, 'r': 2}, wordList)
None
```

```
1 def compChooseWord(hand, wordList):
2 """
3 Given a hand and a wordList, find the word that gives
4 the maximum value score, and return it.
5
6 This word should be calculated by considering all the words
7 in the wordList.
```

10		
11	hand: dictionary (string -> int)	
12	wordList: list (string)	
13	returns: string or None	
14	ппп	,
15 16	bestscore=0	
(Correct	
est	results	
COR	RECT	
		See full output
		See full output
		See Iuli outpui
Che	ck Save You have used 2 of 30 submissions	see iuli outpui
Che	ck Save You have used 2 of 30 submissions	see iuii outpui
Che	ck Save You have used 2 of 30 submissions	see iuii outpui
		see iuii outpui
	Show Discussion	New Post

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