





### Problem Wk.2.2: Nano Quiz

Due date: 2/10, 9:50am

Do all parts of this problem and then click Submit. There is only one Submit button, you should only do that when you are finished with all the parts of the problem.

Do not try to start another log in, you will lose what you typed.

There is a limited checking budget for this problem (10 checks).

You have 15 minutes. You must click submit before:

2/10, 9:50am

#### Part 1: Hammock

Define a class Hammock that keeps track of who is allowed to sit on a hammock. If the hammock is empty, then anyone can sit on it. If the hammock is not empty, then a new request to sit on it will be refused. However, if the next request to sit is from the same person who was refused last time, then the request is granted (as a reward for their persistence).

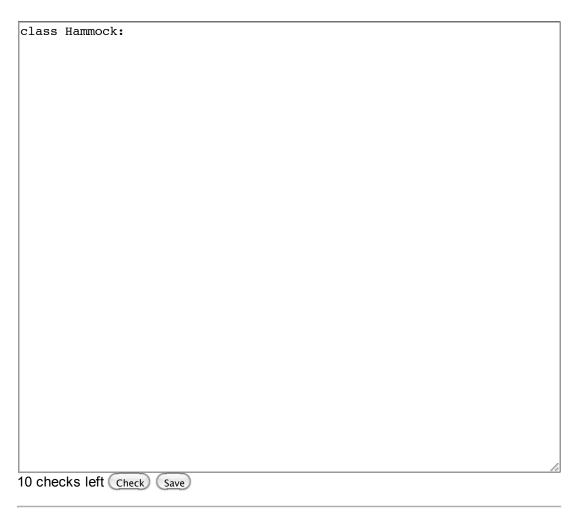
The Hammock should support three operations:

- init initializes the hammock -- it starts out empty.
- sitDown: takes the name of a person that sits down on the hammock. if they successfully sit down, it returns 'welcome!' otherwise, it returns 'sorry, no room'
- leave: someone leaves the hammock -- returns the number of people that are left. if nobody was on the hammock, return 0

You do not have to handle illegal actions, such as a sitDown request from someone already in the hammock.

Here's an example transcript:

```
>>> myHammock = Hammock()
>>> myHammock.sitDown('George')
welcome!
>>> myHammock.sitDown('Bobby')
sorry, no room
>>> myHammock.sitDown('Bobby')
welcome!
>>> myHammock.leave()
>>> myHammock.leave()
>>> myHammock.leave()
>>> myHammock.sitDown('Martha')
welcome!
>>> myHammock.sitDown('Wilhelm')
sorry, no room
>>> myHammock.sitDown('Klaus')
sorry, no room
>>> myHammock.sitDown('Wilhelm')
sorry, no room
```



## Part 2: Enable Submit

Current time is: 3/1/2011, 9:33pm

Click Submit before: 2/10, 9:50am

The Check button will update the current time.

# **Enter Done below**

----

# and click Submit.

If this problem is submitted past the due time, this subproblem will be marked incorrect.

10 checks left Check

This is a multi-part problem, each part has its own Save and Check buttons but there is ONLY ONE Submit button for the WHOLE problem. Finish working on all the parts before you click on Submit.

When you are finished with the problem... Submit

MIT OpenCourseWar	е
http://ocw.mit.edu	

6.01SC Introduction to Electrical Engineering and Computer Science Spring 2011

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.