Introduction

What is python?

1. Multi-purpose (Web, Robotics, Data Analysis, Machine Learning, Web Crawler, etc.)
2. Object Oriented
3. Interpreted language (C, C++ and Java are compiled language).
4. Focus on readability and efficiency

Installation

Please download and install the latest python version (3.6.0) at
https://www.python.org/downloads/

On Windows machines, the Python installation is usually placed in C:\Python36, though you can change this when you're running the installer. To add this directory to your path, you can type the following command into the command prompt in a DOS box:

```
set path=%path%;C:\python36
```

Download a text editor or IDE to write python scripts. I would recommand sublime text, a popular choice for python editor. You may download it at https://www.sublimetext.com/3

How to use python

There are two ways to use python: using the python interpreter or running the python scripts (*.py files).

Syntax

i. Beginning with python
ii. String and list
iii. Dictionary and set
iv. Flow control
v. Method
vi. Module

Exercise: sudoku generator

5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9

Rules: http://www.counton.org/sudoku/rules-of-sudoku.php

The program will first print the partially filled sudoku board, and then print out the answer after the user presses any key.

Your task:

- Complete the attempt_board method.
- The attempt_board method should try to fill up the 9*9 list which represent the board.
- Make use of the random module to make sure the numbers are placed randomly.
- The method attempt_board should return None if it fails to generate the puzzle. (generate_board will keep calling attempt_board until it generates a valid board).