## Iteratively searching through a looped list

Asked 8 years ago Modified 8 years ago Viewed 65 times



Python, and i'm trying to build a Monopoly simulator (for starters, I just want to simulate how one player moves about on the board).

I'm currently in the process of learning how to use



How do i iteratively go through the list of board positions: eg. range(0, 39)? So, if the player is currently in position 35, and rolls a 6, he ends up in position 1.



Hopefully you're able to help! All the best :)

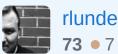
python arrays list loops iteration

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asked Dec 15, 2016 at 3:05



4 Answers

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You can use the % operator as the above answer describes. For example --

3		
3	Position	Place
	0	Go
	1	Mediterranean Avenue
	35	Short Line
	36	Chance
	37	Park Place
	38	Luxury Tax
	39	Boardwalk
$\bigcirc$		

Now, if a user is on Position 35 (Short Line) and rolls a 6, their new position will be:

```
Old_Position = 35
Roll = 6
New_Position = (35 + 6) % 40 = 1
```

So they will now be on position 1, or Mediterranean Avenue.

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answered Dec 15, 2016 at 3:20

David542

**110k** • 201 • 561 • 998



You'll want to look into the modulus/remainder operator, %.



https://en.wikipedia.org/wiki/Modulo\_operation







For example, the expression "5 mod 2" would evaluate to 1 because 5 divided by 2 leaves a quotient of 2 and a remainder of 1, while "9 mod

3" would evaluate to 0 because the division of 9 by 3 has a quotient of 3 and leaves a remainder of 0; there is nothing to subtract from 9 after multiplying 3 times 3.

You can use this to automatically handle when the user "wraps around" the board.

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answered Dec 15, 2016 at 3:11

Jacob G.

29.7k • 7 • 69 • 119



1

Nevermind, I found the answer myself. I must have been nodding off. Taking the current field, doing the modulo of it, gives the answer.



playerField = ((playerField + random.choice(diceRoll)%



Works.



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answered Dec 15, 2016 at 3:17



rlunde



You can just subtract the number rolled from distance from the player to the end of the board.





if the difference is less than 0, send the player back to the start of the board and add the absolute value of the difference to the player's position.





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answered Dec 15, 2016 at 3:21

