

# Iteratively searching through a looped list

Asked 8 years ago   Modified 8 years ago   Viewed 65 times



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

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 :)

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asked Dec 15, 2016 at 3:05



[rlunde](#)

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

3



Position	Place
0	Go
1	Mediterranean Avenue
...	
35	Short Line
36	Chance
37	Park Place
38	Luxury Tax
39	Boardwalk

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

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David542

110k ● 201 ● 561 ● 998



3



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

[https://en.wikipedia.org/wiki/Modulo\\_operation](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

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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

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

1



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

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[Brendan.Sherman](#)

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