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Thread: [Shuffle method?](#)

B0PS - February 14, 2017, 3:30 pm

Write a function named shuffle() that randomizes the order of a deck of 52 cards stored in a list. To achieve this, visit each element in the list and swap it with another random element in the list. You must write your own loop to shuffle the cards. You cannot make use of Python's built-in shuffle function.

Any idea how to go about doing this I've been googling all day and have been messing around with stuff but so far nothing

captainspalding - February 14, 2017, 3:50 pm

You have some boilerplate code for this challenge?

B0PS - February 14, 2017, 4:00 pm

Code #1.

```
def createDeck():
    deckComplete = [As, Ah, Ad, Ac, Ks, Kh, Kd, Kc, Js , Jh, Jd, Jc, Qs, Qh, Qd, Qc, Ts, Th, Td, Tc,
9s, 9h, 9d, 9c, 8s, 8h, 8d, 8c, 7s, 7h, 7d, 7c, 6s, 6h, 6d, 6c, 5s, 5h, 5d, 5c, 4s, 4h, 4d, 4c, 3s, 3h, 3d,
3c, 2s, 2h, 2d, 2c]
    return deckComplete
#2.
def shuffle():
    index = 0
    while index < len(deckcomplete):
```

Goodies - February 14, 2017, 4:18 pm

Well, it's not that hard:

```
PHP Code
<?php
from random import SystemRandom
random = SystemRandom()
```

```
def shuffle(lst):
    size = len(lst)
    for i in range(size):
        r = random.randint(0, size - 1)
        lst[r], lst[i] = lst[i], lst[r]
```

Usage:

```
PHP Code
<?php
Python 3.6.0 (v3.6.0:41df79263a11, Dec 23 2016, 07:18:10) [MSC v.1900 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> from random import SystemRandom
>>> random = SystemRandom()
>>>
>>> def shuffle(lst):
```

```

... size = len(lst)
... for i in range(size):
...     r = random.randint(0, size - 1)
...     lst[r], lst[i] = lst[i], lst[r]
...
>>> x = list(range(10))
>>> x
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
>>> shuffle(x)
>>> x
[4, 9, 0, 7, 5, 2, 8, 3, 1, 6]
>>> shuffle(x)
>>> x
[7, 8, 9, 1, 3, 2, 0, 6, 5, 4]
>>>

```

B0PS - February 14, 2017, 5:11 pm

Code #1.

```

def createDeck():
    deckComplete = [As, Ah, Ad, Ac, Ks, Kh, Kd, Kc, Js, Jh, Jd, Jc, Qs, Qh, Qd, Qc, Ts, Th, Td, Tc,
9s, 9h, 9d, 9c, 8s, 8h, 8d, 8c, 7s, 7h, 7d, 7c, 6s, 6h, 6d, 6c, 5s, 5h, 5d, 5c, 4s, 4h, 4d, 4c, 3s, 3h, 3d,
3c, 2s, 2h, 2d, 2c]
    return deckComplete
#2.
from random import SystemRandom
random = SystemRandom()

```

```

def shuffle(deckComplete):
    size = len(deckComplete)
    for i in range(size):
        r = random.randint(0, size - 1)
        deckComplete[r], deckComplete[i] = deckComplete[i], deckComplete[r]
    return deckComplete

```

So would that possibly work? this is using python 3.6.0b3

Ri?dle - February 15, 2017, 6:11 am

Here's my go probably not better than goodies.

PHP Code

```

<?php
from random import randint

ordered_list = ["A", "B", "C", "D", "E", "F"]

```

```

def shuffle_deck(unshuffled_deck):
    shuffled_deck = []
    for _ in unshuffled_deck:
        shuffled_deck.append(unshuffled_deck[randint(0, len(unshuffled_deck) - 1)])
    return shuffled_deck

```

```

for _ in range(10):

```

```
print(shuffle_deck(ordered_list))
```

output:

Code ['E', 'B', 'C', 'C', 'E', 'B']

['C', 'D', 'B', 'D', 'D', 'B']

['D', 'E', 'E', 'B', 'B', 'D']

['B', 'E', 'D', 'B', 'E', 'F']

['D', 'B', 'D', 'B', 'E', 'E']

['B', 'B', 'E', 'D', 'F', 'A']

['D', 'D', 'A', 'C', 'B', 'A']

['C', 'E', 'A', 'C', 'B', 'B']

['B', 'C', 'A', 'F', 'B', 'B']

['A', 'B', 'B', 'B', 'A', 'C']