

Euler 0024

The Problem:

What is the millionth lexicographic permutation of the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9?

Considerations and Approach:

Well, this is another problem that Python has a simple built in way...

Generating all of the permutations of the numbers 0-9 is not computationally an issue for itertools, we can then sort those permutations and grab out the millionth permutation and that's our answer.

The Code:

```
import itertools

#Sorry that the next few lines don't look pythonic, I adjusted them for comment clarity
sake
#The line should actually just read
sorted(itertools.permutations(list(range(10))))[999999]

#We sort
sorted(
    #all the permutations
    itertools.permutations(
        #of the numbers 0-9
        list(range(10))
    )
)[999999]
```

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