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## <> Plus One

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<http://www.lintcode.com/problem/plus-one/>

Given a non-negative number represented as an array of digits, plus one to the number. The digits are stored such that the most significant digit is at the head of the list.

[<> Java](#)[<> C++](#)[<> Python](#)

```
"""
```

```
* 本代码由九章算法编辑提供。没有版权欢迎转发。  
* - 九章算法致力于帮助更多中国人找到好的工作，教师团队均来自硅谷和国内的一线大公司在职工程师。  
* - 现有的面试培训课程包括：九章算法班，系统设计班，BAT国内班  
* - 更多详情请见官方网站：http://www.jiuzhang.com/
```

```
"""
```

```
class Solution:
```

```
    # @param {int[]} digits a number represented as an array of digits  
    # @return {int[]} the result
```

```
    def plusOne(self, digits):
```

```
        digits = list(reversed(digits))
```

```
        digits[0] += 1
```

```
        i, carry = 0, 0
```

```
        while i < len(digits):
```

```
            next_carry = (digits[i] + carry) / 10
```

```
            digits[i] = (digits[i] + carry) % 10
```

```
            i, carry = i + 1, next_carry
```

```
        if carry > 0:
```

```
            digits.append(carry)
```

```
        return list(reversed(digits))
```