

# 504 Base 7

2018年4月13日 15:22

Given an integer, return its base 7 string representation.

**Example 1:**

**Input:** 100

**Output:** "202"

**Example 2:**

**Input:** -7

**Output:** "-10"

**Note:** The input will be in range of  $[-1e7, 1e7]$ .

来自 <https://leetcode.com/problems/base-7/description/>

给定一个整数，将其转化为7进制，并以字符串形式输出。

**示例 1:**

**输入:** 100

**输出:** "202"

**示例 2:**

**输入:** -7

**输出:** "-10"

**注意:** 输入范围是  $[-1e7, 1e7]$ 。

## Solution for Python3:

```
1 class Solution1:
2     def convertToBase7(self, num):
3         """
4         :type num: int
5         :rtype: str
6         """
7         if not num:
8             return '0'
9         n = abs(num)
10        s = ''
11        while n:
12            s = str(n % 7) + s
13            n //= 7
14        return '-' + s if num < 0 else s
15
16 class Solution2:
17     def convertToBase7(self, num):
18         """
19         :type num: int
20         :rtype: str
```

```

21         """
22         if num < 0:
23             return '-' + self.convertToBase7(-num)
24         if num < 7:
25             return str(num)
26         return self.convertToBase7(num // 7) + str(num % 7)

```

## Solution for C++:

```

1  class Solution {
2  public:
3      string convertToBase7(int num) {
4          if (num < 0)
5              return '-' + convertToBase7(-num);
6          if (num < 7)
7              return to_string(num);
8          return convertToBase7(num / 7) + to_string(num % 7);
9      }
10 };

```