

## [504 Base 7 \(link\)](#)

### Description

Given an integer `num`, return *a string of its **base 7** representation*.

#### Example 1:

Input: `num = 100`  
Output: `"202"`

#### Example 2:

Input: `num = -7`  
Output: `"-10"`

#### Constraints:

- $-10^7 \leq \text{num} \leq 10^7$

(scroll down for solution)

# Solution

Language: *cpp*

Status: Accepted

```
#include <string>

class Solution {
public:
    std::string convertToBase7(int num) {
        if (num == 0) {
            return "0";
        }

        std::string result;
        bool negative = num < 0;
        num = abs(num);

        while (num > 0) {
            int remainder = num % 7;
            result = std::to_string(remainder) + result;
            num /= 7;
        }

        if (negative) {
            result = "-" + result;
        }

        return result;
    }
};
```