

Problem 1017: Convert to Base -2

Problem Information

Difficulty: Medium

Acceptance Rate: 61.57%

Paid Only: No

Tags: Math

Problem Description

Given an integer `n`, return _a binary string representing its representation in base_ `-2`.

****Note**** that the returned string should not have leading zeros unless the string is `"0"`.

****Example 1:****

****Input:**** n = 2 ****Output:**** "110" ****Explantion:**** $(-2)2 + (-2)1 = 2$

****Example 2:****

****Input:**** n = 3 ****Output:**** "111" ****Explantion:**** $(-2)2 + (-2)1 + (-2)0 = 3$

****Example 3:****

****Input:**** n = 4 ****Output:**** "100" ****Explantion:**** $(-2)2 = 4$

****Constraints:****

* `0 <= n <= 109`

Code Snippets

C++:

```
class Solution {  
public:  
    string baseNeg2(int n) {  
  
    }  
};
```

Java:

```
class Solution {  
public String baseNeg2(int n) {  
  
}  
}
```

Python3:

```
class Solution:  
    def baseNeg2(self, n: int) -> str:
```