

168. Excel Sheet Column Title

Easy

Topics

Companies

Given an integer `columnNumber`, return *its corresponding column title as it appears in an Excel sheet*.

For example:

```
A -> 1
B -> 2
C -> 3
...
Z -> 26
AA -> 27
AB -> 28
...
```

Example 1:

```
Input: columnNumber = 1
Output: "A"
```

Example 2:

Input: columnNumber = 28
Output: "AB"

Example 3:

Input: columnNumber = 701
Output: "ZY"

Constraints:

- $1 \leq \text{columnNumber} \leq 2^{31} - 1$

Python:

```
class Solution:
    def convertToTitle(self, columnNumber: int) -> str:
        result = []

        while columnNumber > 0:
            columnNumber -= 1 # adjust for 1-indexing (A=1 instead of 0)
            remainder = columnNumber % 26
            result.append(chr(ord('A') + remainder))
            columnNumber //= 26

        return "".join(reversed(result))
```

JavaScript:

```
/**
 * @param {number} columnNumber
 * @return {string}
 */
var convertToTitle = function(columnNumber) {
    let result = "";

    while (columnNumber > 0) {
        columnNumber--; // adjust because Excel columns are 1-based
        let charCode = (columnNumber % 26) + 65; // 65 is ASCII for 'A'
        result = String.fromCharCode(charCode) + result;
        columnNumber = Math.floor(columnNumber / 26);
    }

    return result;
};
```

```
        result = String.fromCharCode(charCode) + result;
        columnNumber = Math.floor(columnNumber / 26);
    }

    return result;
};
```

Java:

```
class Solution {
    public String convertToTitle(int columnNumber) {
        StringBuilder result = new StringBuilder();

        while (columnNumber > 0) {
            columnNumber--; // adjust because A starts at 1 not 0
            int remainder = columnNumber % 26;
            char letter = (char) ('A' + remainder);
            result.append(letter);
            columnNumber /= 26;
        }

        return result.reverse().toString();
    }
}
```