

# Problem 264: Ugly Number II

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 49.41%

**Paid Only:** No

**Tags:** Hash Table, Math, Dynamic Programming, Heap (Priority Queue)

## Problem Description

An **ugly number** is a positive integer whose prime factors are limited to 2, 3, and 5.

Given an integer `n`, return the `n`th ugly number.

**Example 1:**

**Input:** `n = 10` **Output:** 12 **Explanation:** [1, 2, 3, 4, 5, 6, 8, 9, 10, 12] is the sequence of the first 10 ugly numbers.

**Example 2:**

**Input:** `n = 1` **Output:** 1 **Explanation:** 1 has no prime factors, therefore all of its prime factors are limited to 2, 3, and 5.

**Constraints:**

`1 ≤ n ≤ 1690`

## Code Snippets

**C++:**

```
class Solution {
public:
    int nthUglyNumber(int n) {
```

```
}  
};
```

### Java:

```
class Solution {  
    public int nthUglyNumber(int n) {  
  
    }  
}
```

### Python3:

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