

Problem 263: Ugly Number

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

An

ugly number

is a

positive

integer which does not have a prime factor other than 2, 3, and 5.

Given an integer

n

, return

true

if

n

is an

ugly number

.

Example 1:

Input:

$n = 6$

Output:

true

Explanation:

$6 = 2 \times 3$

Example 2:

Input:

$n = 1$

Output:

true

Explanation:

1 has no prime factors.

Example 3:

Input:

$n = 14$

Output:

false

Explanation:

14 is not ugly since it includes the prime factor 7.

Constraints:

-2

31

$\leq n \leq 2$

31

- 1

Code Snippets

C++:

```
class Solution {
public:
    bool isUgly(int n) {

    }
};
```

Java:

```
class Solution {
    public boolean isUgly(int n) {

    }
}
```

Python3:

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

Python:

```
class Solution(object):  
    def isUgly(self, n):  
        """  
        :type n: int  
        :rtype: bool  
        """
```

JavaScript:

```
/**  
 * @param {number} n  
 * @return {boolean}  
 */  
var isUgly = function(n) {  
  
};
```

TypeScript:

```
function isUgly(n: number): boolean {  
  
};
```

C#:

```
public class Solution {  
    public bool IsUgly(int n) {  
  
    }  
}
```

C:

```
bool isUgly(int n) {  
  
}
```

Go:

```
func isUgly(n int) bool {
```

```
}
```

Kotlin:

```
class Solution {  
    fun isUgly(n: Int): Boolean {  
  
    }  
}
```

Swift:

```
class Solution {  
    func isUgly(_ n: Int) -> Bool {  
  
    }  
}
```

Rust:

```
impl Solution {  
    pub fn is_ugly(n: i32) -> bool {  
  
    }  
}
```

Ruby:

```
# @param {Integer} n  
# @return {Boolean}  
def is_ugly(n)  
  
end
```

PHP:

```
class Solution {  
  
    /**  
     * @param Integer $n  
     * @return Boolean  
     */  
}
```

```
function isUgly($n) {  
  
}  
}
```

Dart:

```
class Solution {  
  bool isUgly(int n) {  
  
  }  
}
```

Scala:

```
object Solution {  
  def isUgly(n: Int): Boolean = {  
  
  }  
}
```

Elixir:

```
defmodule Solution do  
  @spec is_ugly(n :: integer) :: boolean  
  def is_ugly(n) do  
  
  end  
end
```

Erlang:

```
-spec is_ugly(N :: integer()) -> boolean().  
is_ugly(N) ->  
.
```

Racket:

```
(define/contract (is-ugly n)  
  (-> exact-integer? boolean?)  
)
```

Solutions

C++ Solution:

```
/*
 * Problem: Ugly Number
 * Difficulty: Easy
 * Tags: math
 *
 * Approach: Optimized algorithm based on problem constraints
 * Time Complexity: O(n) to O(n^2) depending on approach
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
public:
    bool isUgly(int n) {

    }

};
```

Java Solution:

```
/**
 * Problem: Ugly Number
 * Difficulty: Easy
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 *
 * Approach: Optimized algorithm based on problem constraints
 * Time Complexity: O(n) to O(n^2) depending on approach
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
    public boolean isUgly(int n) {

    }

}
```

Python3 Solution:

```

"""
Problem: Ugly Number
Difficulty: Easy
Tags: math

Approach: Optimized algorithm based on problem constraints
Time Complexity: O(n) to O(n^2) depending on approach
Space Complexity: O(1) to O(n) depending on approach
"""

class Solution:
    def isUgly(self, n: int) -> bool:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class Solution(object):
    def isUgly(self, n):
        """
        :type n: int
        :rtype: bool
        """

```

JavaScript Solution:

```

/**
 * Problem: Ugly Number
 * Difficulty: Easy
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/**
 * @param {number} n
 * @return {boolean}
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var isUgly = function(n) {

```



```
};
```

TypeScript Solution:

```
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function isUgly(n: number): boolean {

};
```

C# Solution:

```
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 */

public class Solution {
    public bool IsUgly(int n) {

    }
}
```

C Solution:

```
/*
 * Problem: Ugly Number
 * Difficulty: Easy
```

```

* Tags: math
*
* Approach: Optimized algorithm based on problem constraints
* Time Complexity: O(n) to O(n^2) depending on approach
* Space Complexity: O(1) to O(n) depending on approach
*/

bool isUgly(int n) {

}

```

Go Solution:

```

// Problem: Ugly Number
// Difficulty: Easy
// Tags: math
//
// Approach: Optimized algorithm based on problem constraints
// Time Complexity: O(n) to O(n^2) depending on approach
// Space Complexity: O(1) to O(n) depending on approach

func isUgly(n int) bool {

}

```

Kotlin Solution:

```

class Solution {
    fun isUgly(n: Int): Boolean {

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Swift Solution:

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class Solution {
    func isUgly(_ n: Int) -> Bool {

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impl Solution {
    pub fn is_ugly(n: i32) -> bool {

    }
}
```

Ruby Solution:

```
# @param {Integer} n
# @return {Boolean}
def is_ugly(n)

end
```

PHP Solution:

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class Solution {

    /**
     * @param Integer $n
     * @return Boolean
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    function isUgly($n) {

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Dart Solution:

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