

Problem 2413: Smallest Even Multiple

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given a

positive

integer

n

, return

the smallest positive integer that is a multiple of

both

2

and

n

.

Example 1:

Input:

n = 5

Output:

10

Explanation:

The smallest multiple of both 5 and 2 is 10.

Example 2:

Input:

n = 6

Output:

6

Explanation:

The smallest multiple of both 6 and 2 is 6. Note that a number is a multiple of itself.

Constraints:

$1 \leq n \leq 150$

Code Snippets

C++:

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

Java:

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

Python3:

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

Python:

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

JavaScript:

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

TypeScript:

```
function smallestEvenMultiple(n: number): number {  
  
};
```

C#:

```
public class Solution {  
    public int SmallestEvenMultiple(int n) {
```

```
}  
}
```

C:

```
int smallestEvenMultiple(int n) {  
  
}
```

Go:

```
func smallestEvenMultiple(n int) int {  
  
}
```

Kotlin:

```
class Solution {  
    fun smallestEvenMultiple(n: Int): Int {  
  
    }  
}
```

Swift:

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

Rust:

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

Ruby:

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

end
```

PHP:

```
class Solution {

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

    }

}
```

Dart:

```
class Solution {
  int smallestEvenMultiple(int n) {

  }
}
```

Scala:

```
object Solution {
  def smallestEvenMultiple(n: Int): Int = {

  }
}
```

Elixir:

```
defmodule Solution do
  @spec smallest_even_multiple(n :: integer) :: integer
  def smallest_even_multiple(n) do

  end
end
```

Erlang:

```
-spec smallest_even_multiple(N :: integer()) -> integer().
smallest_even_multiple(N) ->
.
```

Racket:

```
(define/contract (smallest-even-multiple n)
  (-> exact-integer? exact-integer?)
)
```

Solutions

C++ Solution:

```
/*
 * Problem: Smallest Even Multiple
 * 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:
    int smallestEvenMultiple(int n) {

    }
};
```

Java Solution:

```
/**
 * Problem: Smallest Even Multiple
 * 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 int smallestEvenMultiple(int n) {

}
}

```

Python3 Solution:

```

"""
Problem: Smallest Even Multiple
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 smallestEvenMultiple(self, n: int) -> int:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

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

```

JavaScript Solution:

```

/**
 * Problem: Smallest Even Multiple
 * 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
*/

/**
* @param {number} n
* @return {number}
*/
var smallestEvenMultiple = function(n) {

};

```

TypeScript Solution:

```

/**
* Problem: Smallest Even Multiple
* 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
*/

function smallestEvenMultiple(n: number): number {

};

```

C# Solution:

```

/*
* Problem: Smallest Even Multiple
* 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
*/

```



```

*/

public class Solution {
    public int SmallestEvenMultiple(int n) {

    }
}

```

C Solution:

```

/*
 * Problem: Smallest Even Multiple
 * 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
 */

int smallestEvenMultiple(int n) {

}

```

Go Solution:

```

// Problem: Smallest Even Multiple
// 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 smallestEvenMultiple(n int) int {

}

```

Kotlin Solution:

```

class Solution {
    fun smallestEvenMultiple(n: Int): Int {

    }
}

```

Swift Solution:

```

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

    }
}

```

Rust Solution:

```

// Problem: Smallest Even Multiple
// 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

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

    }
}

```

Ruby Solution:

```

# @param {Integer} n
# @return {Integer}
def smallest_even_multiple(n)

end

```

PHP Solution:

```

class Solution {

```

```

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

}
}

```

Dart Solution:

```

class Solution {
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Scala Solution:

```

object Solution {
  def smallestEvenMultiple(n: Int): Int = {

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defmodule Solution do
  @spec smallest_even_multiple(n :: integer) :: integer
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Erlang Solution:

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-spec smallest_even_multiple(N :: integer()) -> integer().
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```
(define/contract (smallest-even-multiple n)
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