

# Problem 2591: Distribute Money to Maximum Children

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 20.19%

**Paid Only:** No

**Tags:** Math, Greedy

## Problem Description

You are given an integer `money` denoting the amount of money (in dollars) that you have and another integer `children` denoting the number of children that you must distribute the money to.

You have to distribute the money according to the following rules:

\* All money must be distributed. \* Everyone must receive at least `1` dollar. \* Nobody receives `4` dollars.

Return \_the\*\*maximum\*\* number of children who may receive \*\*exactly\*\* \_`8` \_dollars if you distribute the money according to the aforementioned rules\_. If there is no way to distribute the money, return `-1`.

**Example 1:**

**Input:** money = 20, children = 3 **Output:** 1 **Explanation:** The maximum number of children with 8 dollars will be 1. One of the ways to distribute the money is: - 8 dollars to the first child. - 9 dollars to the second child. - 3 dollars to the third child. It can be proven that no distribution exists such that number of children getting 8 dollars is greater than 1.

**Example 2:**

**Input:** money = 16, children = 2 **Output:** 2 **Explanation:** Each child can be given 8 dollars.

**\*\*Constraints:\*\***

\* `1 <= money <= 200` \* `2 <= children <= 30`

## Code Snippets

### C++:

```
class Solution {  
public:  
    int distMoney(int money, int children) {  
  
    }  
};
```

### Java:

```
class Solution {  
public int distMoney(int money, int children) {  
  
}  
}
```

### Python3:

```
class Solution:  
    def distMoney(self, money: int, children: int) -> int:
```