We want to choose integers i and j such that $a_i + a_j - 1$ is divisible by two (i.e. that it is even).

We recall the following properties of integers,

```
odd + odd = even,
odd + even = odd,
even + even = even.
```

We can formally prove these by returning to the definition of even and odd. Even integers are multiples of two, whereas odd integers are one above a multiple of two. More formally, an integer n is even if there exists an integer k such that n = 2k; an integer n is odd if there exists an integer k such that n = 2k + 1.

For example, to prove that odd + odd = even, we let the odd numbers be written as 2s + 1 and 2t + 1, for some integers s and t. Then, we add these two odd numbers:

$$(2s+1) + (2t+1) = 2s + 2t + 2$$
$$= 2(s+t+1).$$

If s and t are integers, then s + t + 1 is also an integer. Thus, the sum of two odd numbers is an even number, since it can be written as $2 \times \text{some integer}$. Similar logic can be used for the other two cases.

With this, we also see that $a_i + a_j - 1$ is even if and only if $a_i + a_j$ is odd.

If we want $a_i + a_j$ to be odd, then there should be at least one odd and one even number in the given list for the task to be possible. And if not (i.e. the list is all-even or all-odd), then the task is impossible.

Note that even though there are only a fixed 7 integers in the list, we still recommend using a loop in your implementation, as this makes the code cleaner, more debugging-friendly, and less prone to error. We check for even or odd-ness by using the modulo operator %, which tells us if there is a remainder after dividing by 2.

```
n = 7
1
\mathbf{2}
    has_even = False
3
    has_odd = False
4
    for i in range(n):
\mathbf{5}
         x = int(input())
6
         if x % 2 == 1:
7
             has_odd = True
8
         else:
9
             has_even = True
10
11
    if has_odd and has_even:
12
         print("Candies for everyone!")
13
    else:
14
         print("No candy for Mom :(")
15
```