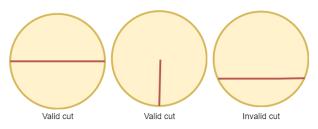
# 6249. Minimum Cuts to Divide a Circle

My Submissions (/contest/biweekly-contest-92/problems/minimum-cuts-to-divide-a-circle/submissions/) Back to Contest (/contest/biweekly-contest-92/)

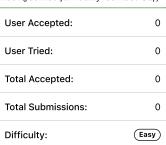
A valid cut in a circle can be:

- A cut that is represented by a straight line that touches two points on the edge of the circle and passes through its center, or
- A cut that is represented by a straight line that touches one point on the edge of the circle and its center.

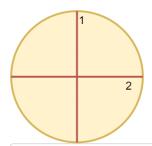
Some valid and invalid cuts are shown in the figures below.



Given the integer  $\, n \,$ , return the  $\, minimum \,$  number of cuts needed to divide a circle into  $\, n \,$  equal slices.



### Example 1:

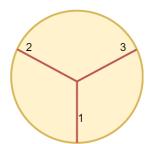


Input: n = 4
Output: 2

## **Explanation:**

The above figure shows how cutting the circle twice through the middle divides it into 4 equal slices.

# Example 2:



Input: n = 3
Output: 3
Explanation:

At least 3 cuts are needed to divide the circle into 3 equal slices.

It can be shown that less than 3 cuts cannot result in 3 slices of equal size and shape.

Also note that the first cut will not divide the circle into distinct parts.

### **Constraints:**

• 1 <= n <= 100







```
1 v const numberOfCuts = (n) => {
2    if (n == 1) return 0;
           return n & 1 ? n : n / 2;
  3
4
5
      };
☐ Custom Testcase
                        Use Example Testcases
                                                                                                                                         Run
                                                                                                                                                    Submission Result: Accepted (/submissions/detail/850108614/) ?
                                                                                     More Details > (/submissions/detail/850108614/)
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```