# 5473. Bulb Switcher IV

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There is a room with  $\, n \,$  bulbs, numbered from  $\, 0 \,$  to  $\, n-1 \,$ , arranged in a row from left to right. Initially all the bulbs are **turned off**.

Your task is to obtain the configuration represented by target where target[i] is '1' if the i-th bulb is turned on and is '0' if it is turned off.

You have a switch to flip the state of the bulb, a flip operation is defined as follows:

- Choose **any** bulb (index i) of your current configuration.
- Flip each bulb from index i to n-1.

| User Accepted:     | 1239   |
|--------------------|--------|
| User Tried:        | 1299   |
| Total Accepted:    | 1239   |
| Total Submissions: | 1350   |
| Difficulty:        | Medium |

When any bulb is flipped it means that if it is 0 it changes to 1 and if it is 1 it changes to 0.

Return the **minimum** number of flips required to form target.

## Example 1:

```
Input: target = "10111"
Output: 3
Explanation: Initial configuration "00000".
flip from the third bulb: "00000" -> "00111"
flip from the first bulb: "00111" -> "11000"
flip from the second bulb: "11000" -> "10111"
We need at least 3 flip operations to form target.
```

#### Example 2:

```
Input: target = "101"
Output: 3
Explanation: "000" -> "111" -> "100" -> "101".
```

#### Example 3:

```
Input: target = "00000"
Output: 0
```

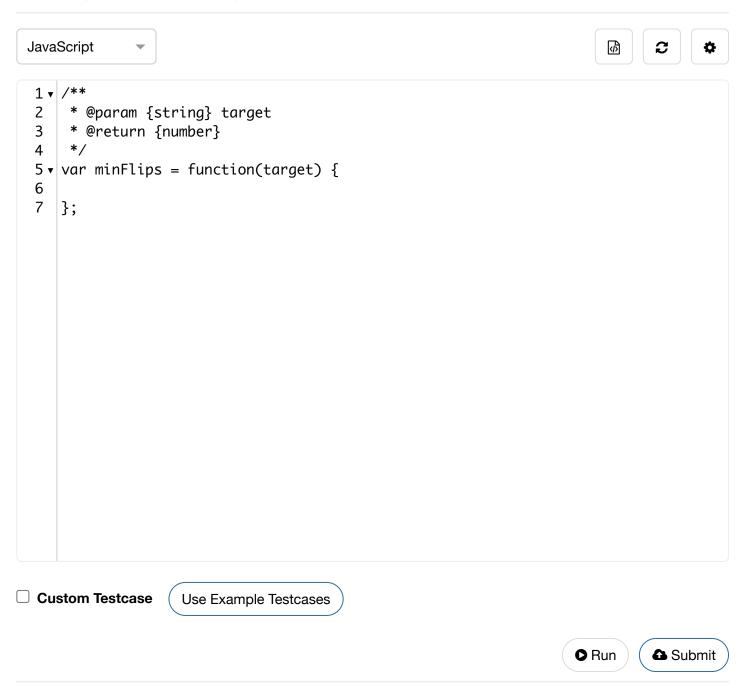
### Example 4:

```
Input: target = "001011101"
Output: 5
```

## **Constraints:**

```
• 1 <= target.length <= 10^5
```

```
target[i] == '0' or target[i] == '1'
```



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