

5194. Minimum Moves to Reach Target Score

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You are playing a game with integers. You start with the integer 1 and you want to reach the integer target .

In one move, you can either:

- **Increment** the current integer by one (i.e.,  $x = x + 1$  ).
- **Double** the current integer (i.e.,  $x = 2 * x$  ).

You can use the **increment** operation **any** number of times, however, you can only use the **double** operation **at most** maxDoubles times.

Given the two integers target and maxDoubles , return the minimum number of moves needed to reach target starting with 1 .

User Accepted:	1
User Tried:	3
Total Accepted:	1
Total Submissions:	3
Difficulty:	Medium

Example 1:

**Input:** target = 5, maxDoubles = 0  
**Output:** 4  
**Explanation:** Keep incrementing by 1 until you reach target.

Example 2:

**Input:** target = 19, maxDoubles = 2  
**Output:** 7  
**Explanation:** Initially, x = 1  
Increment 3 times so x = 4  
Double once so x = 8  
Increment once so x = 9  
Double again so x = 18  
Increment once so x = 19

Example 3:

**Input:** target = 10, maxDoubles = 4  
**Output:** 4  
**Explanation:** Initially, x = 1  
Increment once so x = 2  
Double once so x = 4  
Increment once so x = 5  
Double again so x = 10

Constraints:

- $1 \leq target \leq 10^9$
- $0 \leq maxDoubles \leq 100$

JavaScript

```
1 /**
2  * @param {number} target
3  * @param {number} maxDoubles
4  * @return {number}
5  */
6 var minMoves = function(target, maxDoubles) {
7
8  };
```