3200. Maximum Height of a Triangle

Solved ●

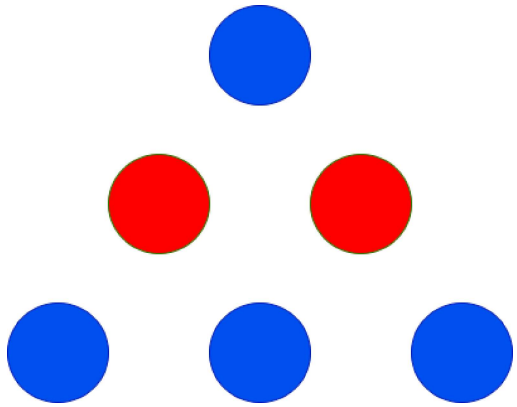
Easy Topics Companies Hint

You are given two integers `red` and `blue` representing the count of red and blue colored balls. You have to arrange these balls to form a triangle such that the 1^{st} row will have 1 ball, the 2^{nd} row will have 2 balls, the 3^{rd} row will have 3 balls, and so on.

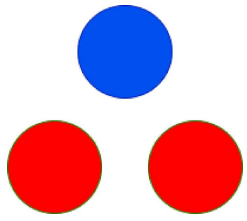
All the balls in a particular row should be the **same** color, and adjacent rows should have **different** colors.

Return the **maximum** *height of the triangle* that can be achieved.

Example 1:

> **Input:** red = 2, blue = 4
>
> **Output:** 3
>
> **Explanation:**
>
> 
>
> The only possible arrangement is shown above.

Example 2:

> **Input:** red = 2, blue = 1
>
> **Output:** 2
>
> **Explanation:**
>
> 
>
> The only possible arrangement is shown above.

Example 3:

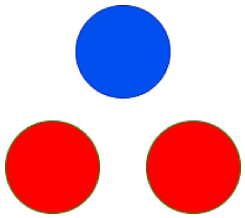
> **Input:** red = 1, blue = 1
>
> **Output:** 1

Example 4:

> **Input:** red = 10, blue = 1

Output: 2

Explanation:



The only possible arrangement is shown above.

Constraints:

- 1 <= red, blue <= 100

Seen this question in a real interview before? 1/5

Yes No

Accepted 35.4K Submissions 83.2K Acceptance Rate 42.5%

Topics

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Hint 1

Hint 2

Discussion (40)

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