1742. Maximum Number of Balls in a Box(盒子中最多球的顆數)

假設你總共有 n 顆球,它們的編號從 lowLimit 到 highLimit ,沒有任何二顆球的編號相同,而所有的編號都有分配給這些球,因此 n == highLimit - lowLimit + 1),另外,你有無限多個盒子,它們編號從 1 到 無限大.

你的工作是將每顆球都放到盒子中,規則是將球編號的每個數字相加所得的值,就是放入盒子的編號. 例如,如果球的編號是 321,就將它放入盒子編號 3+2+1=6 中. 另外,如果球的編號是 10,就將它放入盒子編號 1+0=1 中.

現在傳入 lowLimit 及 highLimit, 請計算並回傳擁有最多球的盒子之中共有多少顆球?

Example 1:

Input: lowLimit = 1, highLimit = 10

Output: 2

Explanation:

Box Number: 1 2 3 4 5 6 7 8 9 10 11 ...

Ball Count: 2 1 1 1 1 1 1 1 1 0 0 ...

Box 1 has the most number of balls with 2 balls.

Example 2:

Input: lowLimit = 5, highLimit = 15

Output: 2

Explanation:

Box Number: 1 2 3 4 5 6 7 8 9 10 11 ...

Ball Count: 1 1 1 1 2 2 1 1 1 0 0 ...

Boxes 5 and 6 have the most number of balls with 2 balls in each.

Example 3:

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Input: lowLimit = 19, highLimit = 28
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Output: 2

Explanation:

Box Number: 1 2 3 4 5 6 7 8 9 10 11 12 ...

Ball Count: 0 1 1 1 1 1 1 1 1 2 0 0 ...

Box 10 has the most number of balls with 2 balls.

Constraints:

• 1 <= lowLimit <= highLimit <= 10^5