BACK

Count Sum of Two Representations 2

DESCRIPTION SOLUTIONS 9039 COMMENTS 21 CODEWRITING SCORE: 300/300

Given integers `n`, `l` and `r`, find the number of ways to represent `n` as a sum of two integers `A` and `B` such that `l ≤ A ≤ B ≤ r`.

Example

For `n = 6`, `l = 2` and `r = 4`, the output should be `countSumOfTwoRepresentations2(n, l, r) = 2`.

There are just two ways to write `6` as `A + B`, where `2 ≤ A ≤ B ≤ 4`: `6 = 2 + 4` and `6 = 3 + 3`.

Input/Output

- **[execution time limit] 4 seconds (js)**
- **[input] integer n**

  A positive integer.

  Guaranteed constraints:
  $5 \le n \le 10^9$.

- **[input] integer l**

  A positive integer.

  Guaranteed constraints:
  $1 \le l \le r$.

- **[input] integer r**

  A positive integer.

  Guaranteed constraints:
  $l \le r \le 10^9$,
  $r - l \le 10^6$.

- **[output] integer**

[JavaScript (ES6)] Syntax Tips