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**

* **[time limit] 3000ms (cs)**
* **[input] integer n**

A positive integer.

*Constraints:*  
5 ≤ n ≤ 109.

* **[input] integer l**

A positive integer.

*Constraints:*  
1 ≤ l ≤ r.

* **[input] integer r**

A positive integer.

*Constraints:*  
l ≤ r ≤ 109,  
l - r ≤ 106.

* **[output] integer**

<https://codefights.com/arcade/code-arcade/loop-tunnel/hBw5BJiZ4LmXcy92u>

static int countSumOfTwoRepresentations2(int n, int l, int r)

{

int result = 0;

for (int i = 1; i <= n - i; i++)

{

if (l <= i && n - i <= r)

{

result++;

}

}

return result;

}