

Problem 1865: Finding Pairs With a Certain Sum

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given two integer arrays

nums1

and

nums2

. You are tasked to implement a data structure that supports queries of two types:

Add

a positive integer to an element of a given index in the array

nums2

.

Count

the number of pairs

(i, j)

such that

`nums1[i] + nums2[j]`

equals a given value (

`0 <= i < nums1.length`

and

`0 <= j < nums2.length`

).

Implement the

`FindSumPairs`

class:

`FindSumPairs(int[] nums1, int[] nums2)`

Initializes the

`FindSumPairs`

object with two integer arrays

`nums1`

and

`nums2`

.

`void add(int index, int val)`

Adds

`val`

to

nums2[index]

, i.e., apply

nums2[index] += val

.

int count(int tot)

Returns the number of pairs

(i, j)

such that

nums1[i] + nums2[j] == tot

.

Example 1:

Input

["FindSumPairs", "count", "add", "count", "count", "add", "add", "count"] [[[1, 1, 2, 2, 2, 3], [1, 4, 5, 2, 5, 4]], [7], [3, 2], [8], [4], [0, 1], [1, 1], [7]]

Output

[null, 8, null, 2, 1, null, null, 11]

Explanation

FindSumPairs findSumPairs = new FindSumPairs([1, 1, 2, 2, 2, 3], [1, 4, 5, 2, 5, 4]);
findSumPairs.count(7); // return 8; pairs (2,2), (3,2), (4,2), (2,4), (3,4), (4,4) make 2 + 5 and
pairs (5,1), (5,5) make 3 + 4 findSumPairs.add(3, 2); // now nums2 = [1,4,5,

4

,5,4

```
] findSumPairs.count(8); // return 2; pairs (5,2), (5,4) make 3 + 5 findSumPairs.count(4); //  
return 1; pair (5,0) makes 3 + 1 findSumPairs.add(0, 1); // now nums2 = [
```

2

,4,5,4

,5,4

```
] findSumPairs.add(1, 1); // now nums2 = [
```

2

,

5

,5,4

,5,4

```
] findSumPairs.count(7); // return 11; pairs (2,1), (2,2), (2,4), (3,1), (3,2), (3,4), (4,1), (4,2),  
(4,4) make 2 + 5 and pairs (5,3), (5,5) make 3 + 4
```

Constraints:

$1 \leq \text{nums1.length} \leq 1000$

$1 \leq \text{nums2.length} \leq 10$

5

$1 \leq \text{nums1}[i] \leq 10$

9

`1 <= nums2[i] <= 10`

`5`

`0 <= index < nums2.length`

`1 <= val <= 10`

`5`

`1 <= tot <= 10`

`9`

At most

1000

calls are made to

add

and

count

each

.

Code Snippets

C++:

```
class FindSumPairs {
public:
    FindSumPairs(vector<int>& nums1, vector<int>& nums2) {
```

```

}

void add(int index, int val) {

}

int count(int tot) {

}

};

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * FindSumPairs* obj = new FindSumPairs(nums1, nums2);
 * obj->add(index,val);
 * int param_2 = obj->count(tot);
 */

```

Java:

```

class FindSumPairs {

    public FindSumPairs(int[] nums1, int[] nums2) {

    }

    public void add(int index, int val) {

    }

    public int count(int tot) {

    }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * FindSumPairs obj = new FindSumPairs(nums1, nums2);
 * obj.add(index,val);
 * int param_2 = obj.count(tot);
 */

```

Python3:

```
class FindSumPairs:

    def __init__(self, nums1: List[int], nums2: List[int]):

    def add(self, index: int, val: int) -> None:

    def count(self, tot: int) -> int:


# Your FindSumPairs object will be instantiated and called as such:
# obj = FindSumPairs(nums1, nums2)
# obj.add(index,val)
# param_2 = obj.count(tot)
```

Python:

```
class FindSumPairs(object):

    def __init__(self, nums1, nums2):
        """
        :type nums1: List[int]
        :type nums2: List[int]
        """

    def add(self, index, val):
        """
        :type index: int
        :type val: int
        :rtype: None
        """

    def count(self, tot):
        """
        :type tot: int
        :rtype: int
```

```
"""
```

```
# Your FindSumPairs object will be instantiated and called as such:  
# obj = FindSumPairs(nums1, nums2)  
# obj.add(index,val)  
# param_2 = obj.count(tot)
```

JavaScript:

```
/**  
 * @param {number[]} nums1  
 * @param {number[]} nums2  
 */  
var FindSumPairs = function(nums1, nums2) {  
  
};  
  
/**  
 * @param {number} index  
 * @param {number} val  
 * @return {void}  
 */  
FindSumPairs.prototype.add = function(index, val) {  
  
};  
  
/**  
 * @param {number} tot  
 * @return {number}  
 */  
FindSumPairs.prototype.count = function(tot) {  
  
};  
  
/**  
 * Your FindSumPairs object will be instantiated and called as such:  
 * var obj = new FindSumPairs(nums1, nums2)  
 * obj.add(index,val)  
 * var param_2 = obj.count(tot)  
 */
```


TypeScript:

```
class FindSumPairs {
  constructor(nums1: number[], nums2: number[]) {

  }

  add(index: number, val: number): void {

  }

  count(tot: number): number {

  }
}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * var obj = new FindSumPairs(nums1, nums2)
 * obj.add(index,val)
 * var param_2 = obj.count(tot)
 */
```

C#:

```
public class FindSumPairs {

  public FindSumPairs(int[] nums1, int[] nums2) {

  }

  public void Add(int index, int val) {

  }

  public int Count(int tot) {

  }
}

/**
 * Your FindSumPairs object will be instantiated and called as such:
```

```

* FindSumPairs obj = new FindSumPairs(nums1, nums2);
* obj.Add(index, val);
* int param_2 = obj.Count(tot);
*/

```

C:

```

typedef struct {

} FindSumPairs;

FindSumPairs* findSumPairsCreate(int* nums1, int nums1Size, int* nums2, int
nums2Size) {

}

void findSumPairsAdd(FindSumPairs* obj, int index, int val) {

}

int findSumPairsCount(FindSumPairs* obj, int tot) {

}

void findSumPairsFree(FindSumPairs* obj) {

}

/**
 * Your FindSumPairs struct will be instantiated and called as such:
 * FindSumPairs* obj = findSumPairsCreate(nums1, nums1Size, nums2, nums2Size);
 * findSumPairsAdd(obj, index, val);

 * int param_2 = findSumPairsCount(obj, tot);

 * findSumPairsFree(obj);
 */

```

Go:

```
type FindSumPairs struct {  
  
}  
  
func Constructor(nums1 []int, nums2 []int) FindSumPairs {  
  
}  
  
func (this *FindSumPairs) Add(index int, val int) {  
  
}  
  
func (this *FindSumPairs) Count(tot int) int {  
  
}  
  
/**  
 * Your FindSumPairs object will be instantiated and called as such:  
 * obj := Constructor(nums1, nums2);  
 * obj.Add(index,val);  
 * param_2 := obj.Count(tot);  
 */
```

Kotlin:

```
class FindSumPairs(nums1: IntArray, nums2: IntArray) {  
  
    fun add(index: Int, `val`: Int) {  
  
    }  
  
    fun count(tot: Int): Int {  
  
    }  
  
}
```

```

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * var obj = FindSumPairs(nums1, nums2)
 * obj.add(index, `val`)
 * var param_2 = obj.count(tot)
 */

```

Swift:

```

class FindSumPairs {

    init(_ nums1: [Int], _ nums2: [Int]) {

    }

    func add(_ index: Int, _ val: Int) {

    }

    func count(_ tot: Int) -> Int {

    }
}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * let obj = FindSumPairs(nums1, nums2)
 * obj.add(index, val)
 * let ret_2: Int = obj.count(tot)
 */

```

Rust:

```

struct FindSumPairs {

}

/**
 * `&self` means the method takes an immutable reference.

```

```

* If you need a mutable reference, change it to `&mut self` instead.
*/
impl FindSumPairs {

fn new(nums1: Vec<i32>, nums2: Vec<i32>) -> Self {

}

fn add(&self, index: i32, val: i32) {

}

fn count(&self, tot: i32) -> i32 {

}
}

/**
* Your FindSumPairs object will be instantiated and called as such:
* let obj = FindSumPairs::new(nums1, nums2);
* obj.add(index, val);
* let ret_2: i32 = obj.count(tot);
*/

```

Ruby:

```

class FindSumPairs

=begin
:type nums1: Integer[]
:type nums2: Integer[]
=end
def initialize(nums1, nums2)

end

=begin
:type index: Integer
:type val: Integer
:rtype: Void
=end

```

```

def add(index, val)

end

=begin
:type tot: Integer
:rtype: Integer
=end
def count(tot)

end

end

# Your FindSumPairs object will be instantiated and called as such:
# obj = FindSumPairs.new(nums1, nums2)
# obj.add(index, val)
# param_2 = obj.count(tot)

```

PHP:

```

class FindSumPairs {
    /**
     * @param Integer[] $nums1
     * @param Integer[] $nums2
     */
    function __construct($nums1, $nums2) {

    }

    /**
     * @param Integer $index
     * @param Integer $val
     * @return NULL
     */
    function add($index, $val) {

    }

    /**

```

```

* @param Integer $tot
* @return Integer
*/
function count($tot) {

}

}

/**
* Your FindSumPairs object will be instantiated and called as such:
* $obj = FindSumPairs($nums1, $nums2);
* $obj->add($index, $val);
* $ret_2 = $obj->count($tot);
*/

```

Dart:

```

class FindSumPairs {

  FindSumPairs(List<int> nums1, List<int> nums2) {

  }

  void add(int index, int val) {

  }

  int count(int tot) {

  }

}

/**
* Your FindSumPairs object will be instantiated and called as such:
* FindSumPairs obj = FindSumPairs(nums1, nums2);
* obj.add(index, val);
* int param2 = obj.count(tot);
*/

```

Scala:

```

class FindSumPairs(_nums1: Array[Int], _nums2: Array[Int]) {

  def add(index: Int, `val`: Int): Unit = {

  }

  def count(tot: Int): Int = {

  }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * val obj = new FindSumPairs(nums1, nums2)
 * obj.add(index, `val`)
 * val param_2 = obj.count(tot)
 */

```

Elixir:

```

defmodule FindSumPairs do
  @spec init_(nums1 :: [integer], nums2 :: [integer]) :: any
  def init_(nums1, nums2) do

  end

  @spec add(index :: integer, val :: integer) :: any
  def add(index, val) do

  end

  @spec count(tot :: integer) :: integer
  def count(tot) do

  end
end

# Your functions will be called as such:
# FindSumPairs.init_(nums1, nums2)
# FindSumPairs.add(index, val)
# param_2 = FindSumPairs.count(tot)

```



```
# FindSumPairs.init_ will be called before every test case, in which you can
do some necessary initializations.
```

Erlang:

```
-spec find_sum_pairs_init_(Nums1 :: [integer()], Nums2 :: [integer()]) ->
any().
find_sum_pairs_init_(Nums1, Nums2) ->
.

-spec find_sum_pairs_add(Index :: integer(), Val :: integer()) -> any().
find_sum_pairs_add(Index, Val) ->
.

-spec find_sum_pairs_count(Tot :: integer()) -> integer().
find_sum_pairs_count(Tot) ->
.

%% Your functions will be called as such:
%% find_sum_pairs_init_(Nums1, Nums2),
%% find_sum_pairs_add(Index, Val),
%% Param_2 = find_sum_pairs_count(Tot),

%% find_sum_pairs_init_ will be called before every test case, in which you
can do some necessary initializations.
```

Racket:

```
(define find-sum-pairs%
(class object%
  (super-new)

  ; nums1 : (listof exact-integer?)
  ; nums2 : (listof exact-integer?)
  (init-field
   nums1
   nums2)

  ; add : exact-integer? exact-integer? -> void?
  (define/public (add index val)
    )
```

```

; count : exact-integer? -> exact-integer?
(define/public (count tot)
  )))

;; Your find-sum-pairs% object will be instantiated and called as such:
;; (define obj (new find-sum-pairs% [nums1 nums1] [nums2 nums2]))
;; (send obj add index val)
;; (define param_2 (send obj count tot))

```

Solutions

C++ Solution:

```

/*
 * Problem: Finding Pairs With a Certain Sum
 * Difficulty: Medium
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class FindSumPairs {
public:
    FindSumPairs(vector<int>& nums1, vector<int>& nums2) {

    }

    void add(int index, int val) {

    }

    int count(int tot) {

    }
};

/**
 * Your FindSumPairs object will be instantiated and called as such:

```

```

* FindSumPairs* obj = new FindSumPairs(nums1, nums2);
* obj->add(index,val);
* int param_2 = obj->count(tot);
*/

```

Java Solution:

```

/**
 * Problem: Finding Pairs With a Certain Sum
 * Difficulty: Medium
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class FindSumPairs {

    public FindSumPairs(int[] nums1, int[] nums2) {

    }

    public void add(int index, int val) {

    }

    public int count(int tot) {

    }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * FindSumPairs obj = new FindSumPairs(nums1, nums2);
 * obj.add(index,val);
 * int param_2 = obj.count(tot);
 */

```

Python3 Solution:

```

"""
Problem: Finding Pairs With a Certain Sum
Difficulty: Medium
Tags: array, hash

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class FindSumPairs:

    def __init__(self, nums1: List[int], nums2: List[int]):

    def add(self, index: int, val: int) -> None:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class FindSumPairs(object):

    def __init__(self, nums1, nums2):
        """
        :type nums1: List[int]
        :type nums2: List[int]
        """

    def add(self, index, val):
        """
        :type index: int
        :type val: int
        :rtype: None
        """

    def count(self, tot):
        """
        :type tot: int
        :rtype: int

```

```
"""
```

```
# Your FindSumPairs object will be instantiated and called as such:  
# obj = FindSumPairs(nums1, nums2)  
# obj.add(index,val)  
# param_2 = obj.count(tot)
```

JavaScript Solution:

```
/**  
 * Problem: Finding Pairs With a Certain Sum  
 * Difficulty: Medium  
 * Tags: array, hash  
 *  
 * Approach: Use two pointers or sliding window technique  
 * Time Complexity: O(n) or O(n log n)  
 * Space Complexity: O(n) for hash map  
 */  
  
/**  
 * @param {number[]} nums1  
 * @param {number[]} nums2  
 */  
var FindSumPairs = function(nums1, nums2) {  
  
};  
  
/**  
 * @param {number} index  
 * @param {number} val  
 * @return {void}  
 */  
FindSumPairs.prototype.add = function(index, val) {  
  
};  
  
/**  
 * @param {number} tot  
 * @return {number}
```

```

*/
FindSumPairs.prototype.count = function(tot) {

};

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * var obj = new FindSumPairs(nums1, nums2)
 * obj.add(index,val)
 * var param_2 = obj.count(tot)
 */

```

TypeScript Solution:

```

/**
 * Problem: Finding Pairs With a Certain Sum
 * Difficulty: Medium
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class FindSumPairs {
  constructor(nums1: number[], nums2: number[]) {

  }

  add(index: number, val: number): void {

  }

  count(tot: number): number {

  }
}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * var obj = new FindSumPairs(nums1, nums2)

```

```
* obj.add(index,val)
* var param_2 = obj.count(tot)
*/
```

C# Solution:

```
/*
 * Problem: Finding Pairs With a Certain Sum
 * Difficulty: Medium
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

public class FindSumPairs {

    public FindSumPairs(int[] nums1, int[] nums2) {

    }

    public void Add(int index, int val) {

    }

    public int Count(int tot) {

    }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * FindSumPairs obj = new FindSumPairs(nums1, nums2);
 * obj.Add(index,val);
 * int param_2 = obj.Count(tot);
 */
```

C Solution:

```

/*
 * Problem: Finding Pairs With a Certain Sum
 * Difficulty: Medium
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity:  $O(n)$  or  $O(n \log n)$ 
 * Space Complexity:  $O(n)$  for hash map
 */

typedef struct {

} FindSumPairs;

FindSumPairs* findSumPairsCreate(int* nums1, int nums1Size, int* nums2, int
nums2Size) {

}

void findSumPairsAdd(FindSumPairs* obj, int index, int val) {

}

int findSumPairsCount(FindSumPairs* obj, int tot) {

}

void findSumPairsFree(FindSumPairs* obj) {

}

/**
 * Your FindSumPairs struct will be instantiated and called as such:
 * FindSumPairs* obj = findSumPairsCreate(nums1, nums1Size, nums2, nums2Size);
 * findSumPairsAdd(obj, index, val);

 * int param_2 = findSumPairsCount(obj, tot);

 * findSumPairsFree(obj);

```



```
*/
```

Go Solution:

```
// Problem: Finding Pairs With a Certain Sum
// Difficulty: Medium
// Tags: array, hash
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

type FindSumPairs struct {

}

func Constructor(nums1 []int, nums2 []int) FindSumPairs {

}

func (this *FindSumPairs) Add(index int, val int) {

}

func (this *FindSumPairs) Count(tot int) int {

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * obj := Constructor(nums1, nums2);
 * obj.Add(index,val);
 * param_2 := obj.Count(tot);
 */
```

Kotlin Solution:

```

class FindSumPairs(nums1: IntArray, nums2: IntArray) {

    fun add(index: Int, `val`: Int) {

    }

    fun count(tot: Int): Int {

    }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * var obj = FindSumPairs(nums1, nums2)
 * obj.add(index,`val`)
 * var param_2 = obj.count(tot)
 */

```

Swift Solution:

```

class FindSumPairs {

    init(_ nums1: [Int], _ nums2: [Int]) {

    }

    func add(_ index: Int, _ val: Int) {

    }

    func count(_ tot: Int) -> Int {

    }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * let obj = FindSumPairs(nums1, nums2)
 * obj.add(index, val)
 * let ret_2: Int = obj.count(tot)
 */

```

```
*/
```

Rust Solution:

```
// Problem: Finding Pairs With a Certain Sum
// Difficulty: Medium
// Tags: array, hash
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

struct FindSumPairs {

}

/**
 * `&self` means the method takes an immutable reference.
 * If you need a mutable reference, change it to `&mut self` instead.
 */
impl FindSumPairs {

    fn new(nums1: Vec<i32>, nums2: Vec<i32>) -> Self {

    }

    fn add(&self, index: i32, val: i32) {

    }

    fn count(&self, tot: i32) -> i32 {

    }
}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * let obj = FindSumPairs::new(nums1, nums2);
 * obj.add(index, val);
 * let ret_2: i32 = obj.count(tot);
 */
```

```
*/
```

Ruby Solution:

```
class FindSumPairs

  =begin
  :type nums1: Integer[]
  :type nums2: Integer[]
  =end
  def initialize(nums1, nums2)

  end

  =begin
  :type index: Integer
  :type val: Integer
  :rtype: Void
  =end
  def add(index, val)

  end

  =begin
  :type tot: Integer
  :rtype: Integer
  =end
  def count(tot)

  end

  # Your FindSumPairs object will be instantiated and called as such:
  # obj = FindSumPairs.new(nums1, nums2)
  # obj.add(index, val)
  # param_2 = obj.count(tot)
```

PHP Solution:

```
class FindSumPairs {  
    /**  
     * @param Integer[] $nums1  
     * @param Integer[] $nums2  
     */  
    function __construct($nums1, $nums2) {  
  
    }  
  
    /**  
     * @param Integer $index  
     * @param Integer $val  
     * @return NULL  
     */  
    function add($index, $val) {  
  
    }  
  
    /**  
     * @param Integer $tot  
     * @return Integer  
     */  
    function count($tot) {  
  
    }  
}  
  
/**  
 * Your FindSumPairs object will be instantiated and called as such:  
 * $obj = FindSumPairs($nums1, $nums2);  
 * $obj->add($index, $val);  
 * $ret_2 = $obj->count($tot);  
 */
```

Dart Solution:

```
class FindSumPairs {  
  
    FindSumPairs(List<int> nums1, List<int> nums2) {  
  
    }  
}
```

```

void add(int index, int val) {

}

int count(int tot) {

}

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * FindSumPairs obj = FindSumPairs(nums1, nums2);
 * obj.add(index,val);
 * int param2 = obj.count(tot);
 */

```

Scala Solution:

```

class FindSumPairs(_nums1: Array[Int], _nums2: Array[Int]) {

  def add(index: Int, `val`: Int): Unit = {

  }

  def count(tot: Int): Int = {

  }

}

/**
 * Your FindSumPairs object will be instantiated and called as such:
 * val obj = new FindSumPairs(nums1, nums2)
 * obj.add(index,`val`)
 * val param_2 = obj.count(tot)
 */

```

Elixir Solution:

```

defmodule FindSumPairs do
  @spec init_(nums1 :: [integer], nums2 :: [integer]) :: any
  def init_(nums1, nums2) do

  end

  @spec add(index :: integer, val :: integer) :: any
  def add(index, val) do

  end

  @spec count(tot :: integer) :: integer
  def count(tot) do

  end
end

# Your functions will be called as such:
# FindSumPairs.init_(nums1, nums2)
# FindSumPairs.add(index, val)
# param_2 = FindSumPairs.count(tot)

# FindSumPairs.init_ will be called before every test case, in which you can
do some necessary initializations.

```

Erlang Solution:

```

-spec find_sum_pairs_init_(Nums1 :: [integer()], Nums2 :: [integer()]) ->
any().
find_sum_pairs_init_(Nums1, Nums2) ->
.

-spec find_sum_pairs_add(Index :: integer(), Val :: integer()) -> any().
find_sum_pairs_add(Index, Val) ->
.

-spec find_sum_pairs_count(Tot :: integer()) -> integer().
find_sum_pairs_count(Tot) ->
.

%% Your functions will be called as such:

```

```
%% find_sum_pairs_init_(Nums1, Nums2),
%% find_sum_pairs_add(Index, Val),
%% Param_2 = find_sum_pairs_count(Tot),

%% find_sum_pairs_init_ will be called before every test case, in which you
can do some necessary initializations.
```

Racket Solution:

```
(define find-sum-pairs%
  (class object%
    (super-new)

    ; nums1 : (listof exact-integer?)
    ; nums2 : (listof exact-integer?)
    (init-field
      nums1
      nums2)

    ; add : exact-integer? exact-integer? -> void?
    (define/public (add index val)
      )

    ; count : exact-integer? -> exact-integer?
    (define/public (count tot)
      )))

;; Your find-sum-pairs% object will be instantiated and called as such:
;; (define obj (new find-sum-pairs% [nums1 nums1] [nums2 nums2]))
;; (send obj add index val)
;; (define param_2 (send obj count tot))
```