Qn Link : <https://www.geeksforgeeks.org/count-pairs-with-given-sum/>

Step 1 : create an hashmap and store all the frequencies of the array element.

Step 2 : if an element k – nums[i] exists in the array , then find the min of (nums[i] , k - nums[i] ) and then remove those elements from the array.

Step 3 : Add the min count to the answer.

public static int getPairsCount(int[] arr, int sum) {

HashMap<Integer, Integer> map = new HashMap<>();

int count = 0;

for (int num : arr) {

map.put(num, map.getOrDefault(num, 0) + 1);

}

for(int num : arr){

int req = k - arr;

if(map.contains(arr) && map.get(req)){

int min = Math.min(map.get(nums[i]) , map.get(req));

count += min;

map.remove(nums[i]);

map.remove(req);

}

}

return count;

}