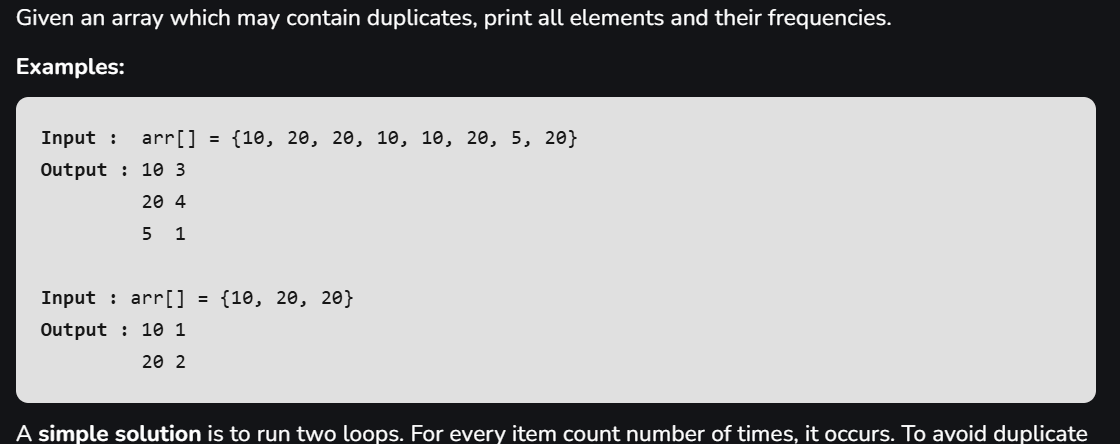
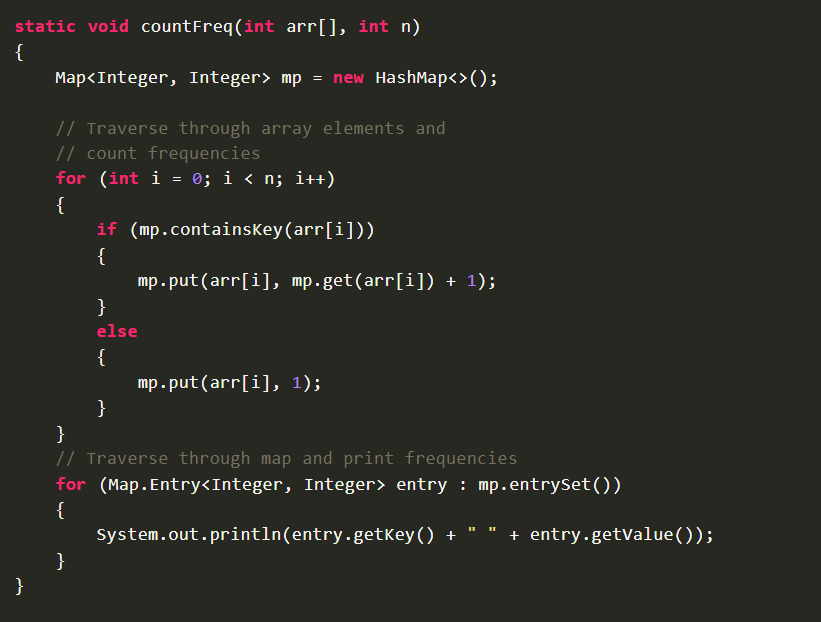
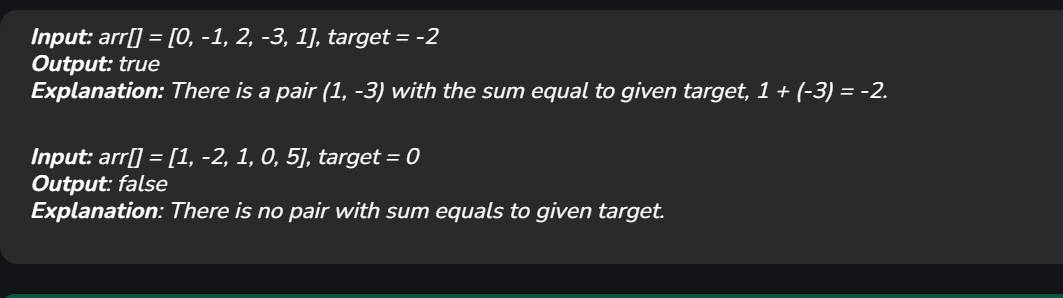
**Hashing Problems Kumar’s Sheets**

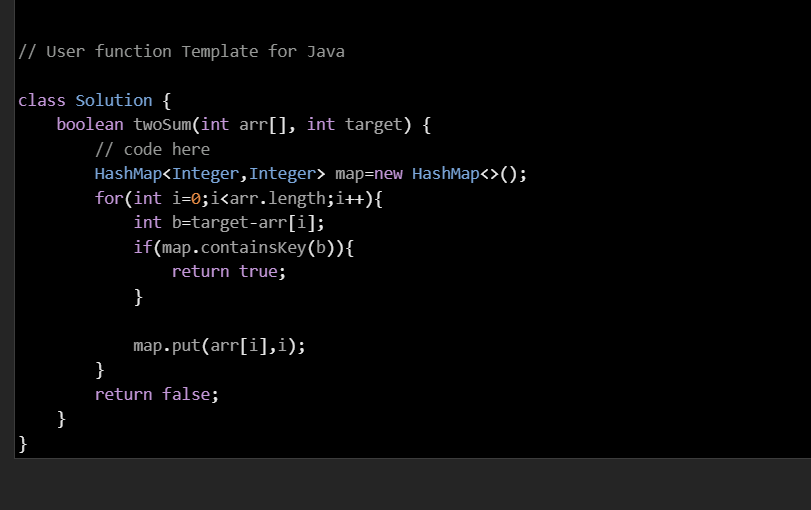
**1.Count Frequencies of array**

****

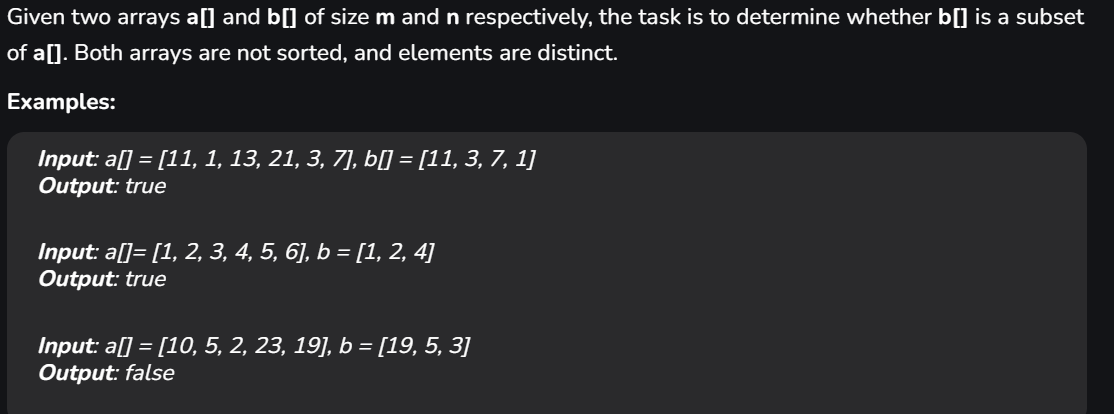
****

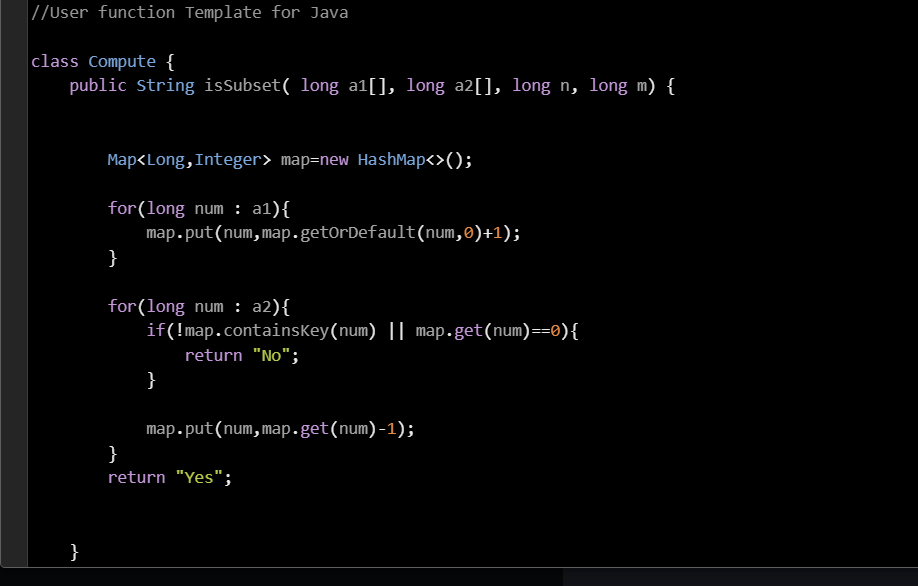
**2.Two sum(Pair with given sum)**

****

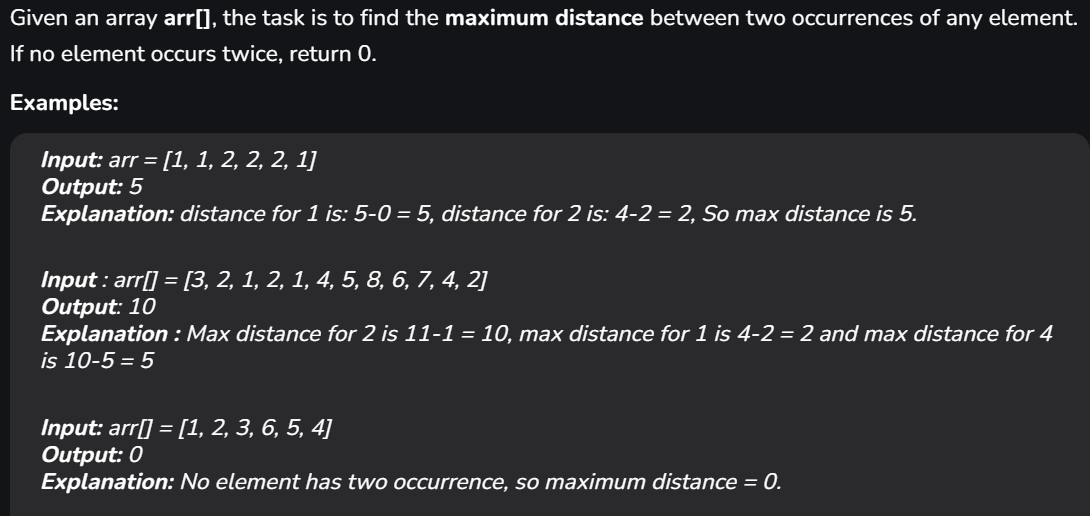
****

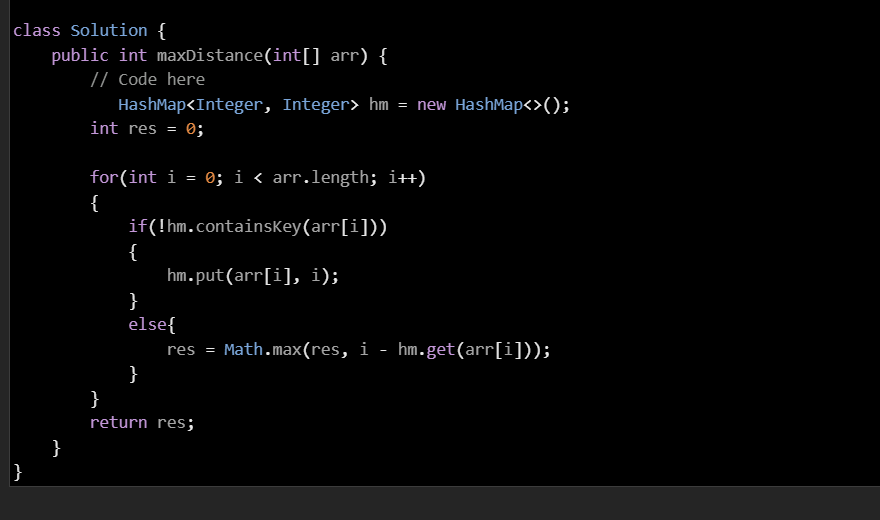
**3.Check if the array is subset of another array**

****

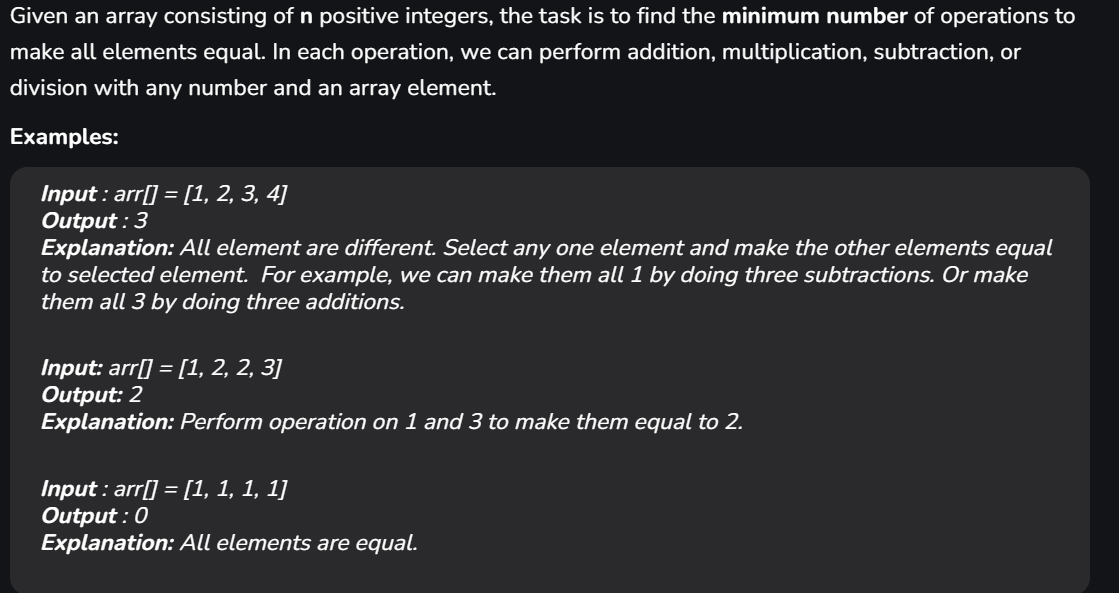
****

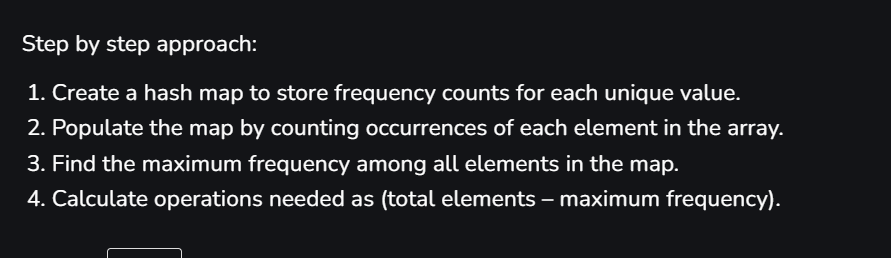
**4.Maximum distance between two occurrence**

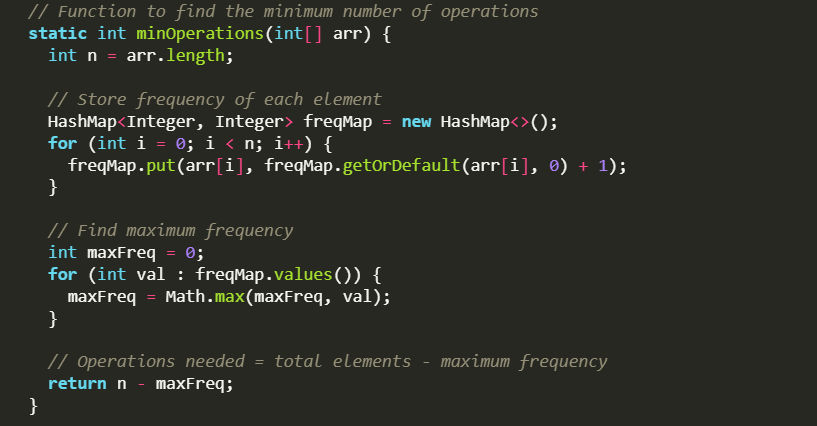
****

****

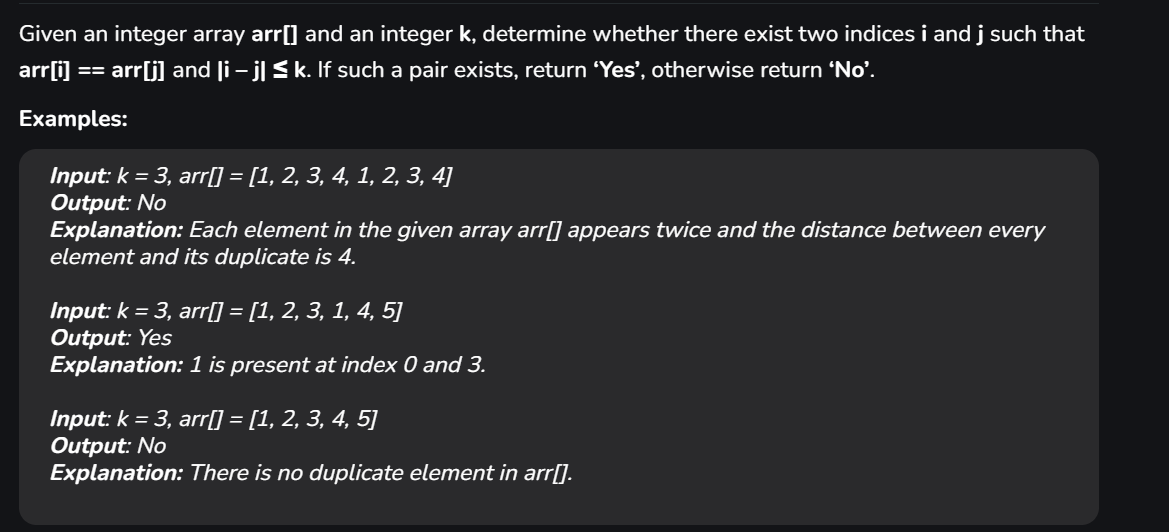
**5.Minimum operation to make all elements equal in array**

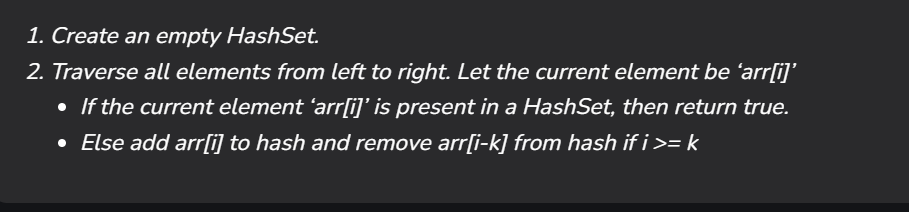
****

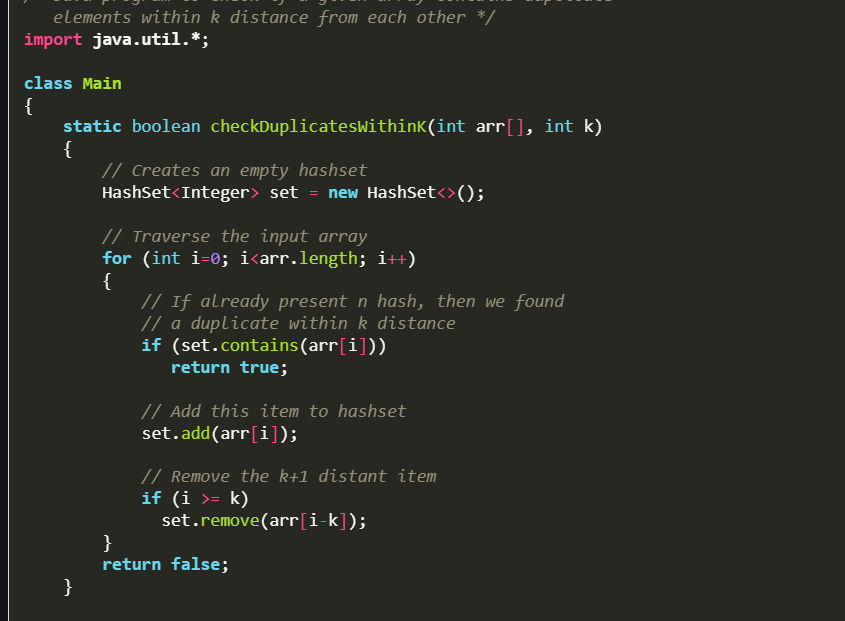
****

****

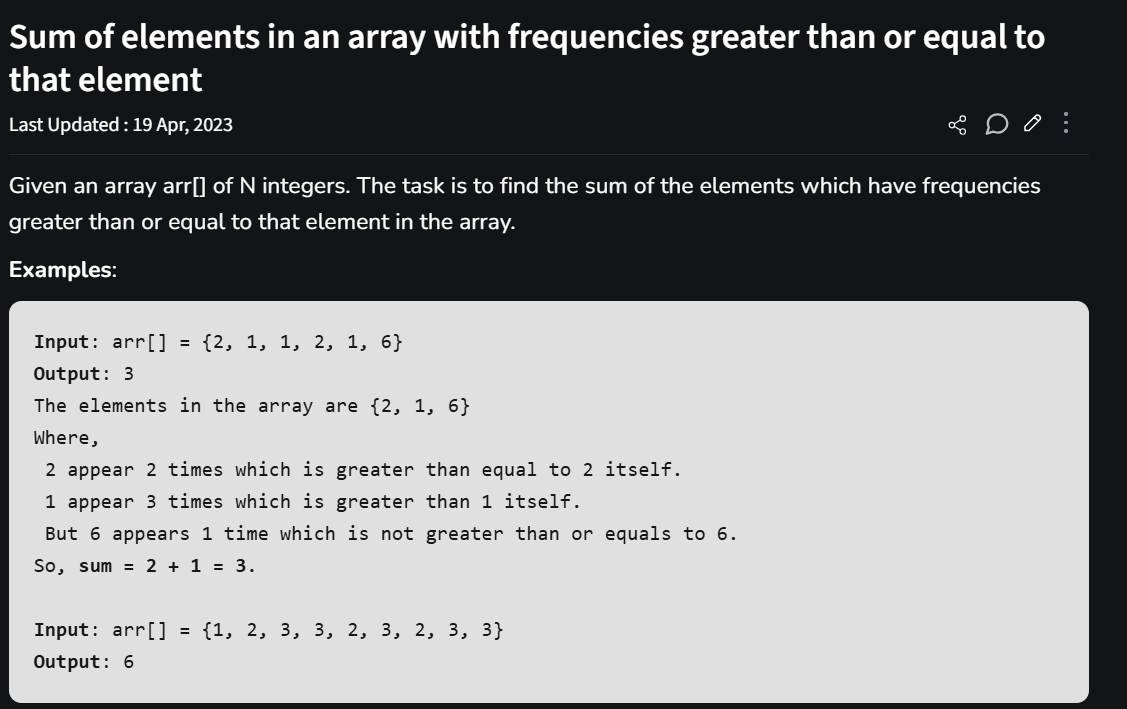
**6.Duplicate within k distance in an array**

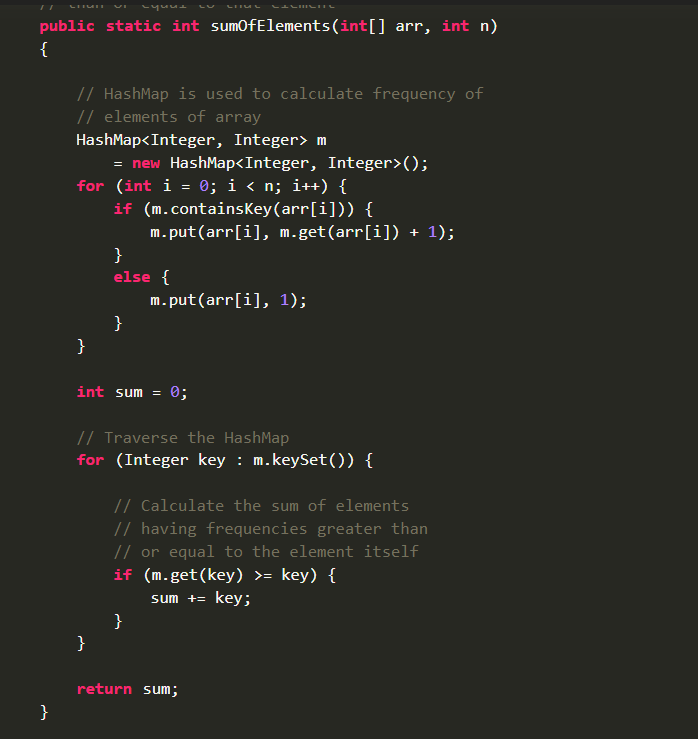
****

****

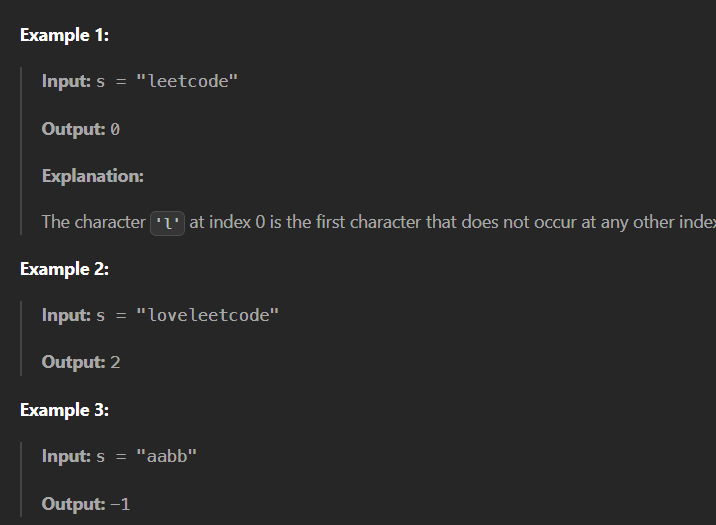
****

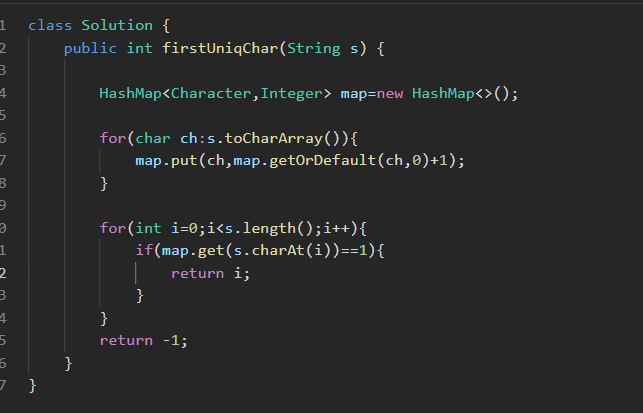
**7.Sum of elements in an array with frequencies greater than or equal to that element**

****

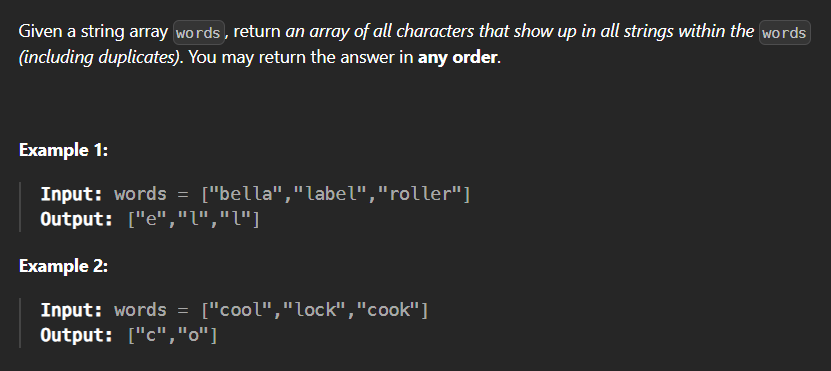
****

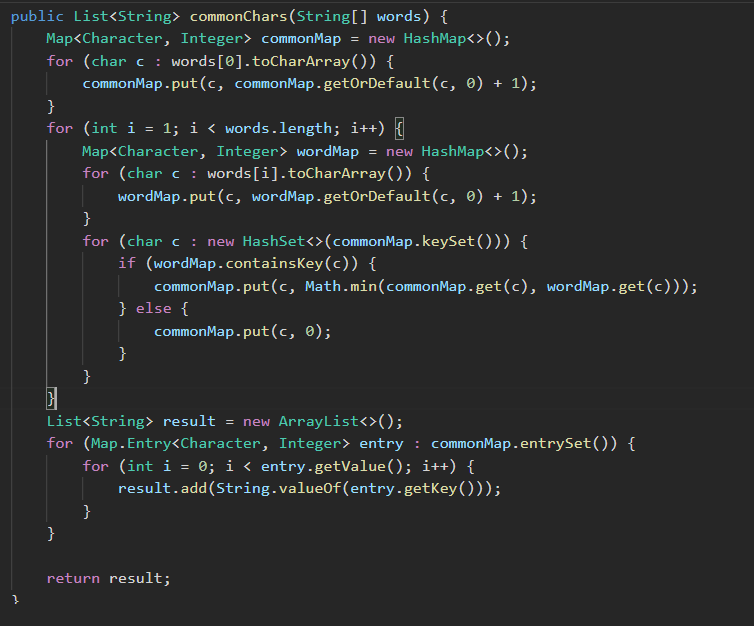
**8.First unique character in string**

****

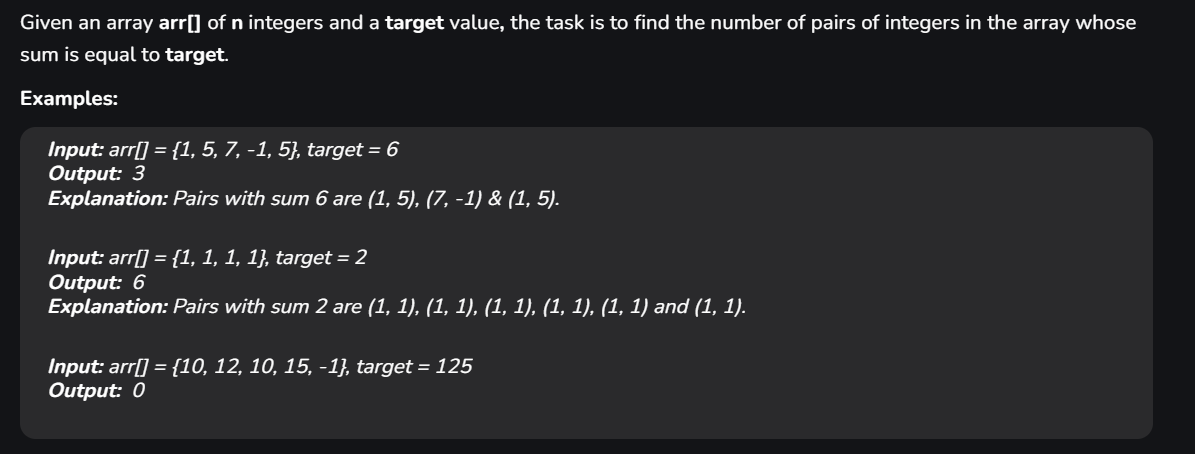
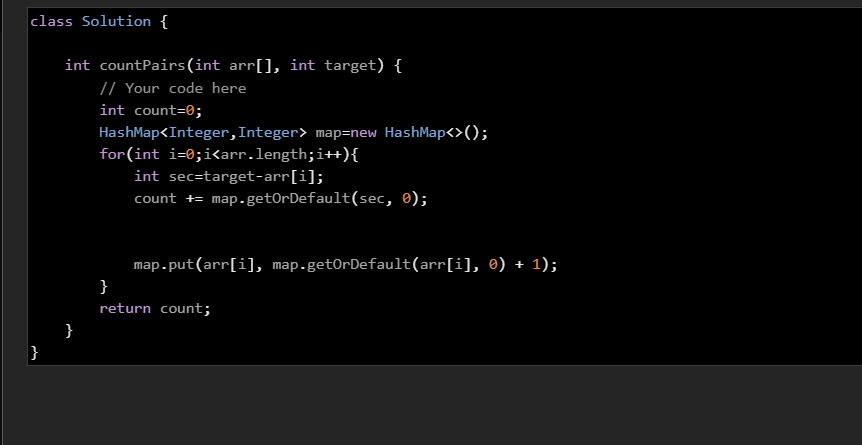
****

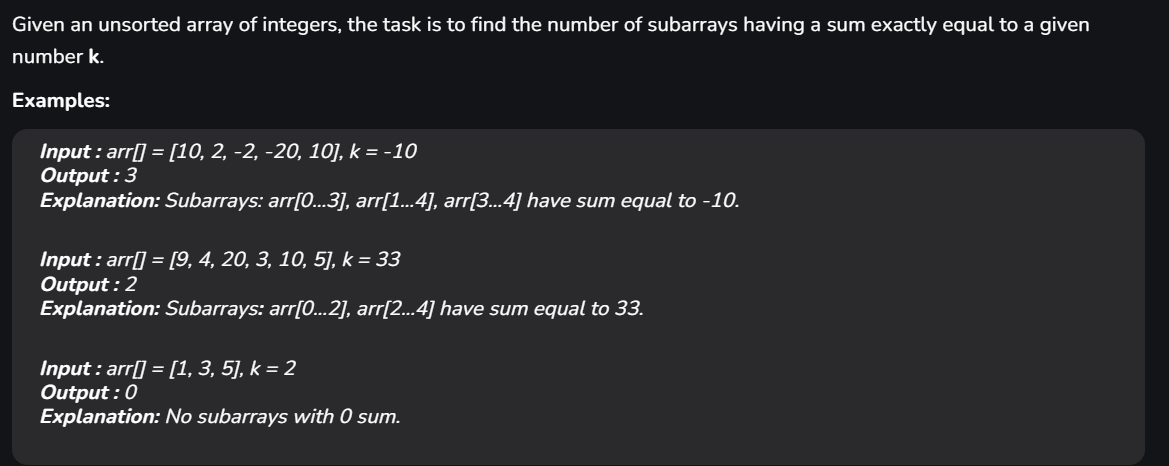
**9.Find Common Character**

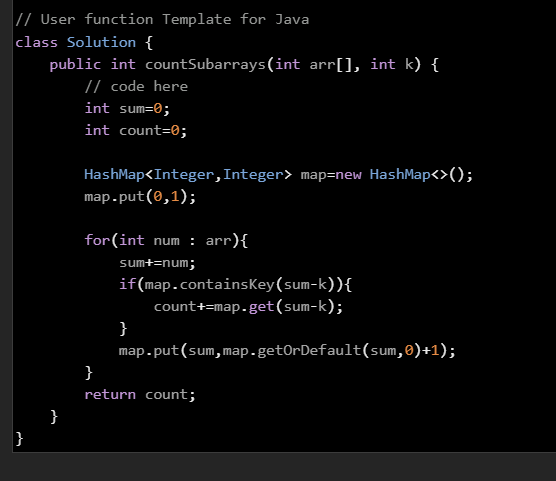
****

****

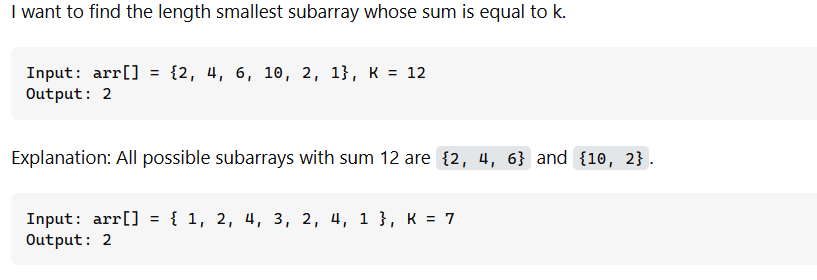
**10.2Sum-count pair with given sum**

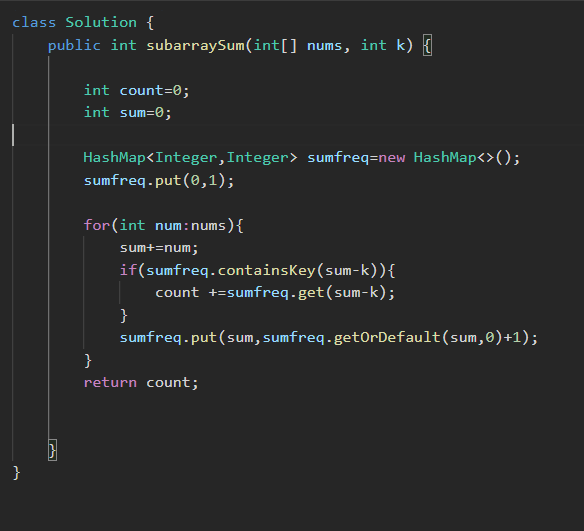
****

**11.Count subarray having sum k**

****

**12.Smallest subarray with sum equal to k**

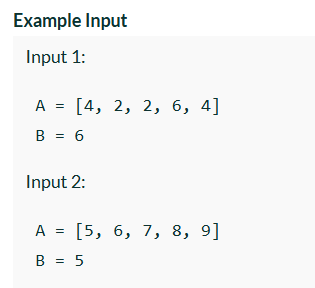
****

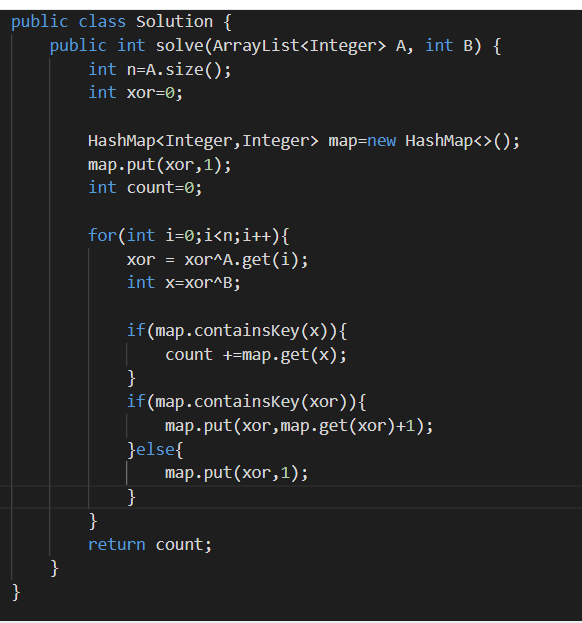
****

**13.Subarray with given XOR**

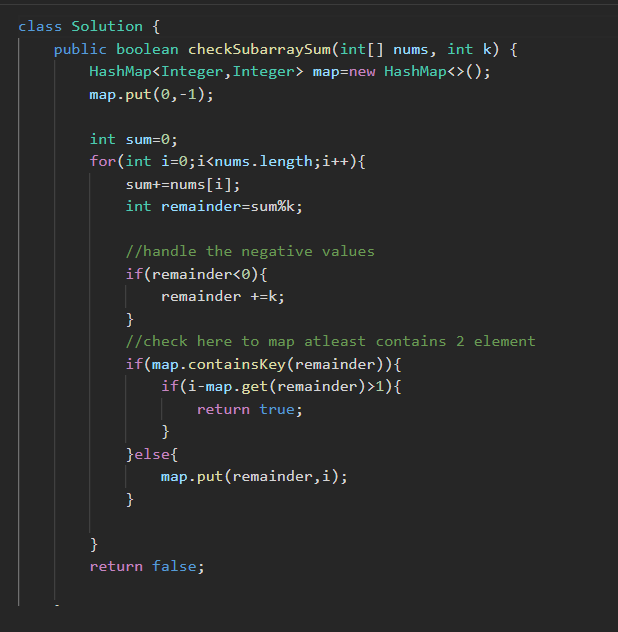
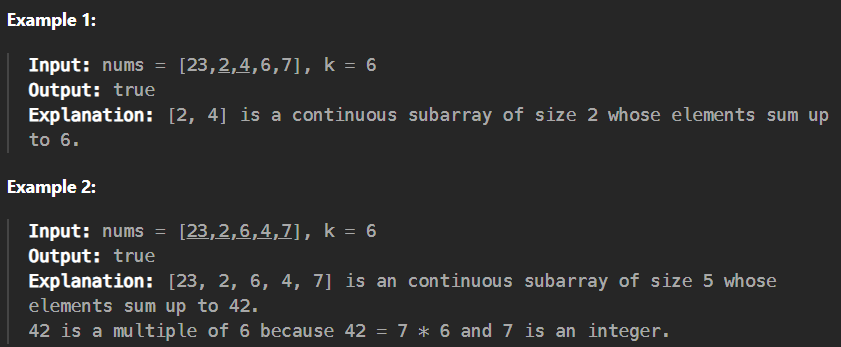
Given an array of integers **A** and an integer **B**.

Find the total number of subarrays having bitwise XOR of all elements equals to B.

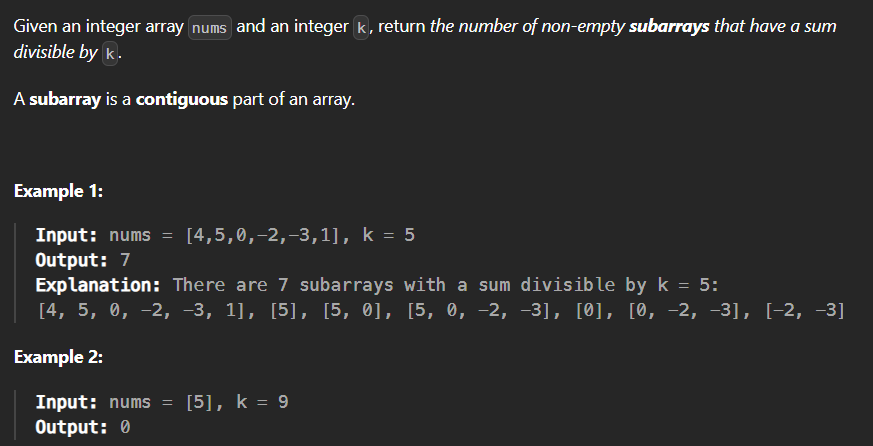
****

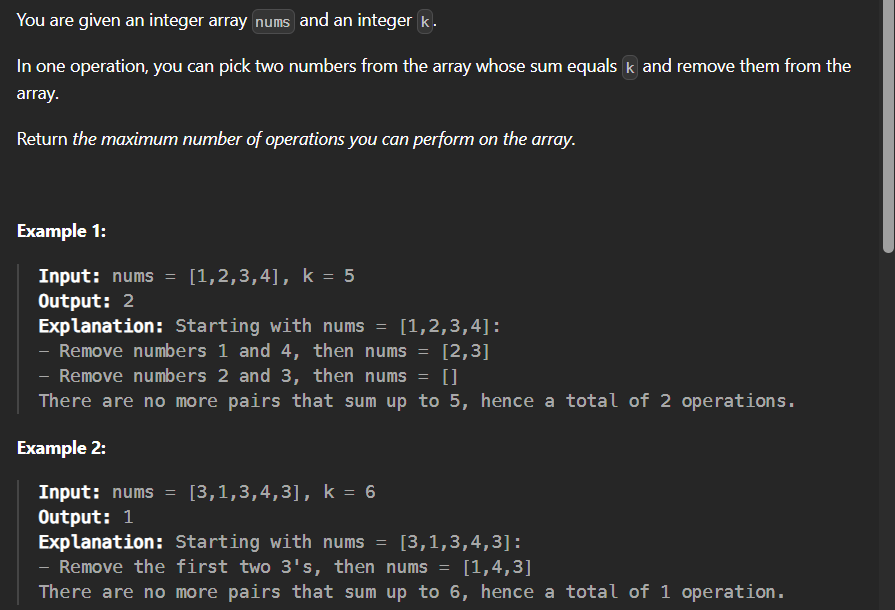
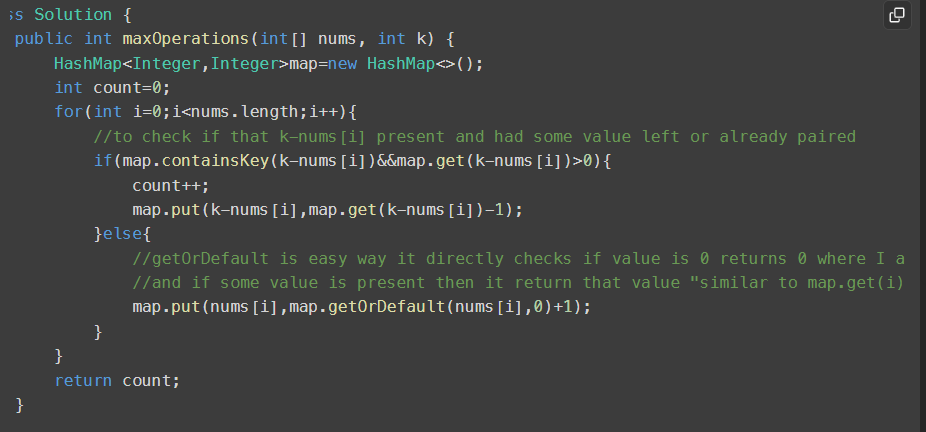
****

**14.Continous Subarray Sum**

****

**15.Subarray sum divisible by k**

****

**16.Max number of k-sum of pairs**

 //optimised--O(logn)

        int count=0; -----🡪Using Two pointer

        int n=nums.length;

        Arrays.sort(nums);

        int left=0;

        int right=n-1;

        while(left<right){

            if(nums[left]+nums[right]<k){

                left++;

            }else if(nums[left]+nums[right]>k){

                right--;

            }else{

                count++;

                left++;

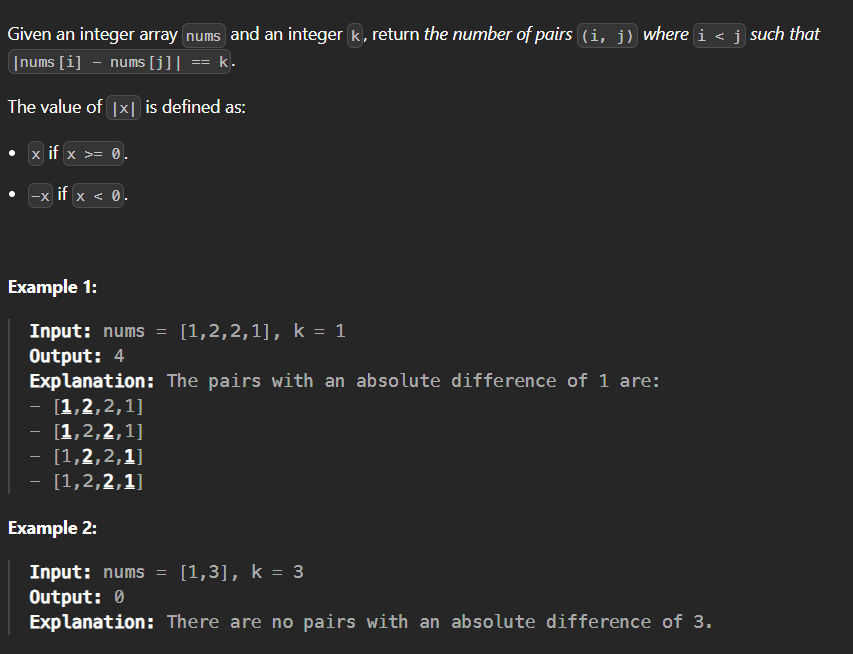
                right--;

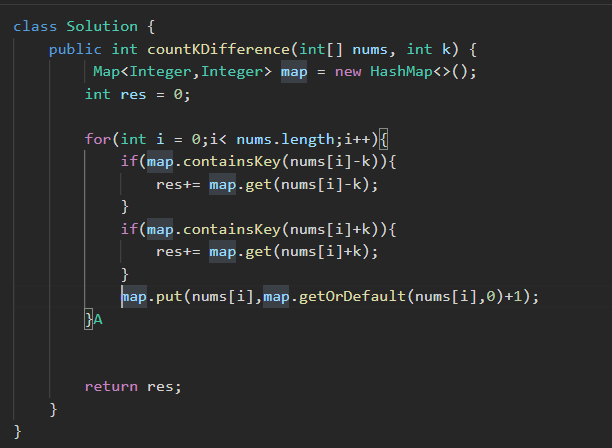
            }

        }

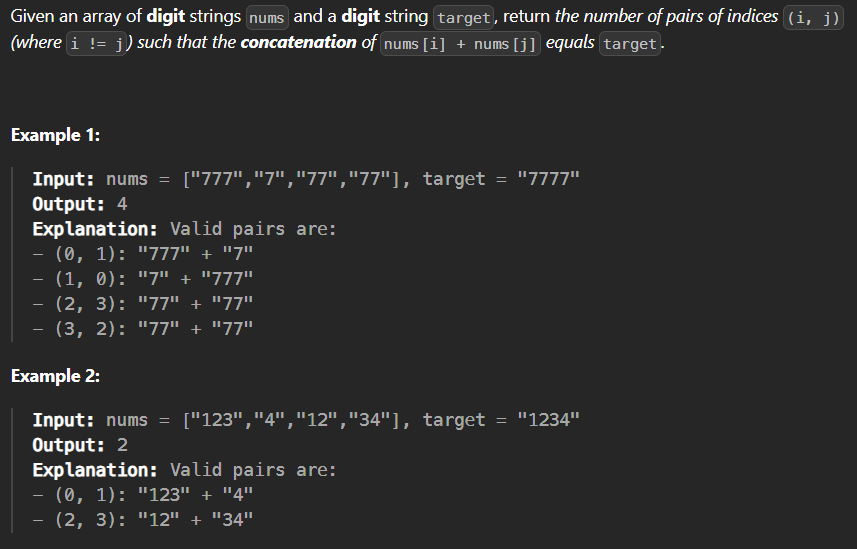
        return count;

**17.Count Number of pairs with absolute difference k**

****

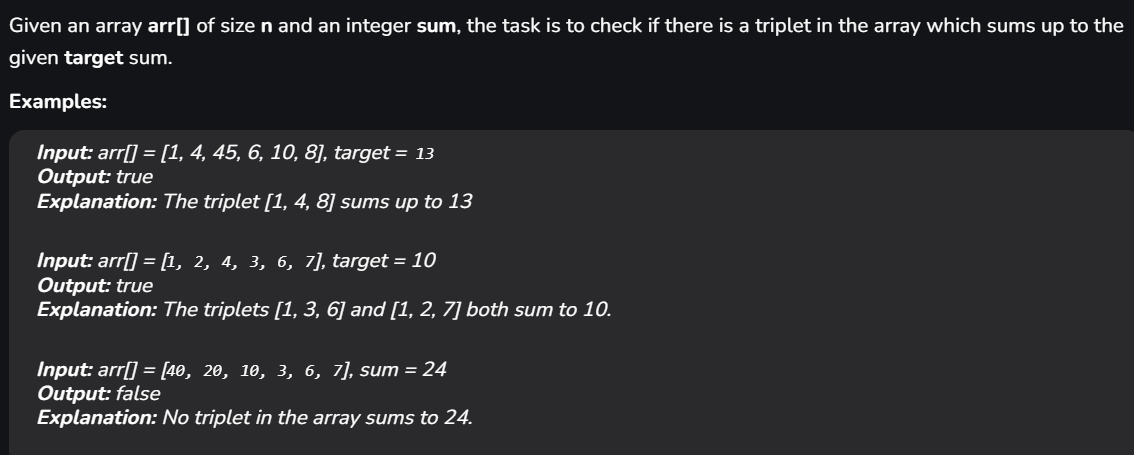
****

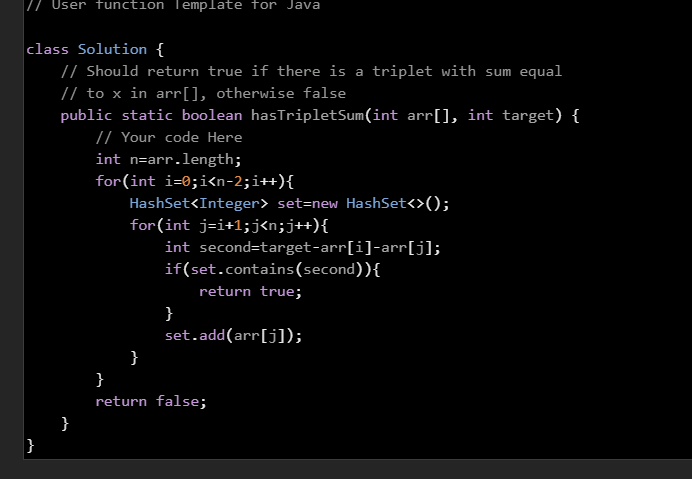
**18.Number of pair of string with concatenation equals to target.**

****

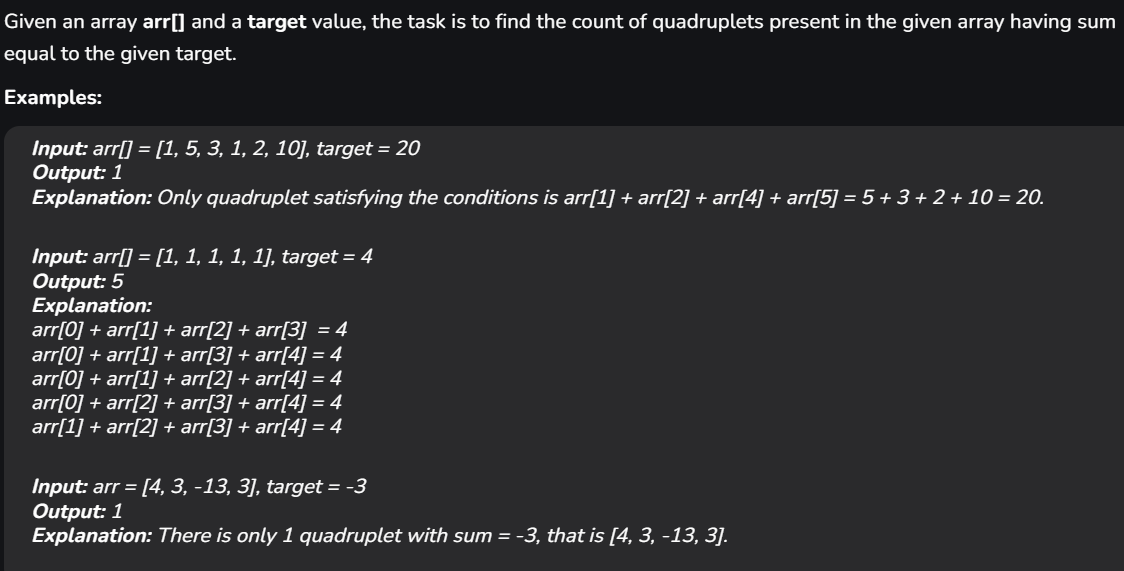
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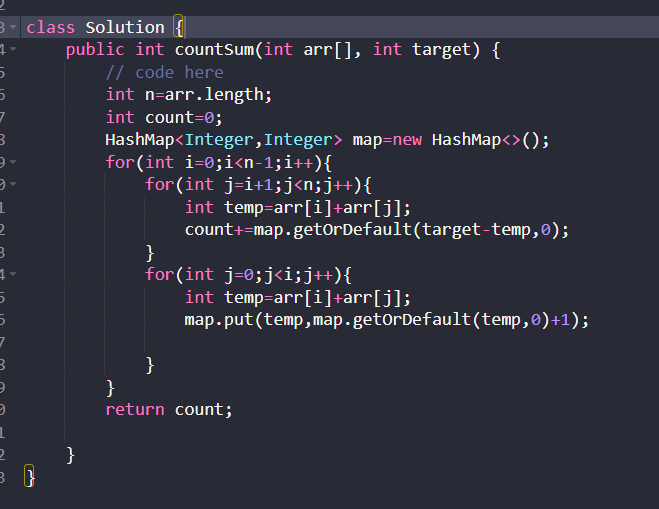
**19. 3-Sum Triplet sum in array**

****

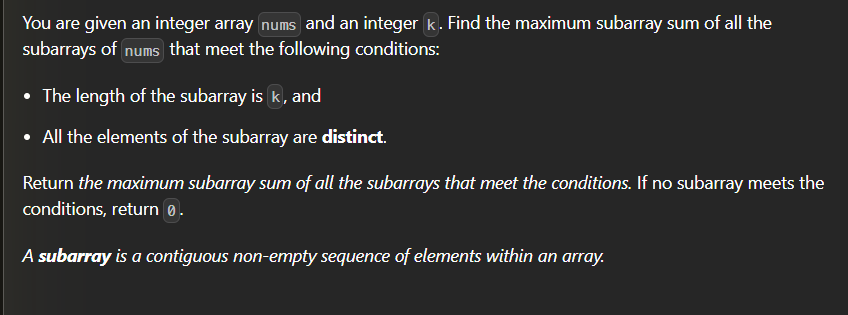
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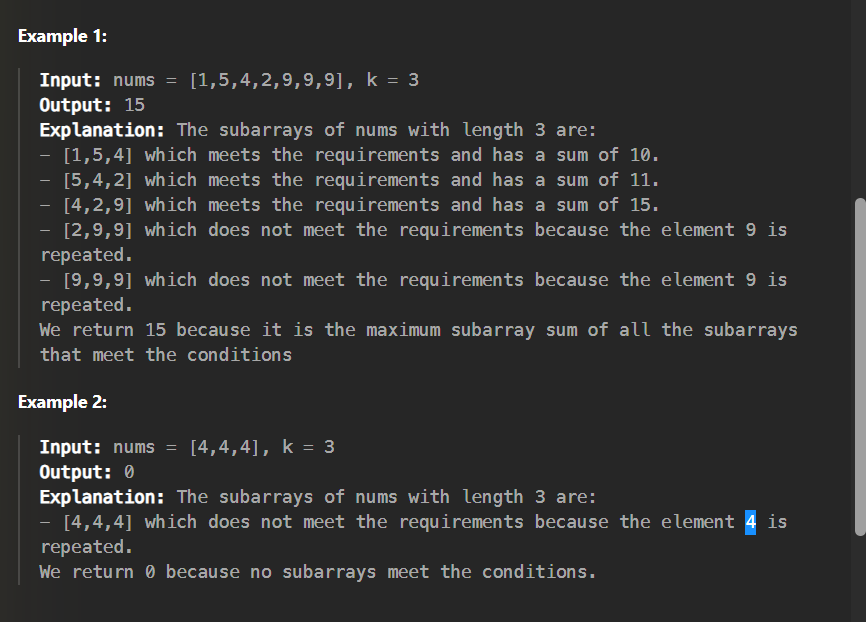
**20. 4 Sum –Count quadruplets with given sum in an array**

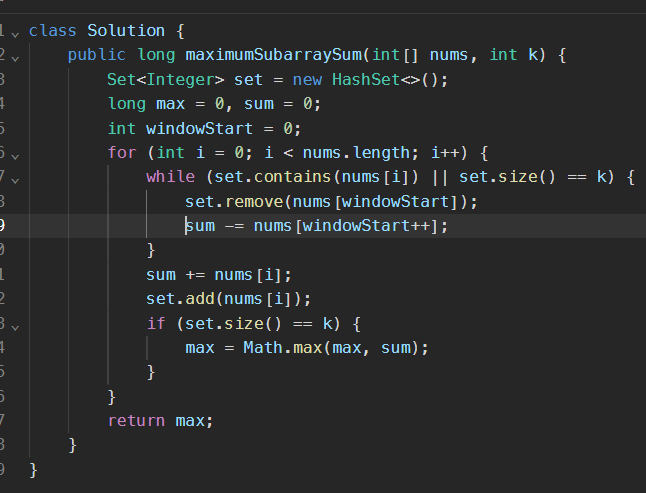
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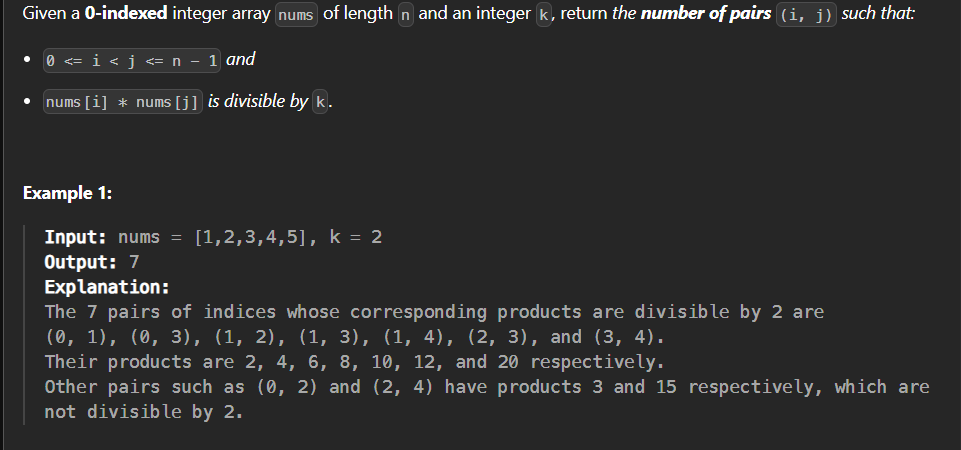
**21.Maximum Sum of distinct subarrays with length k**

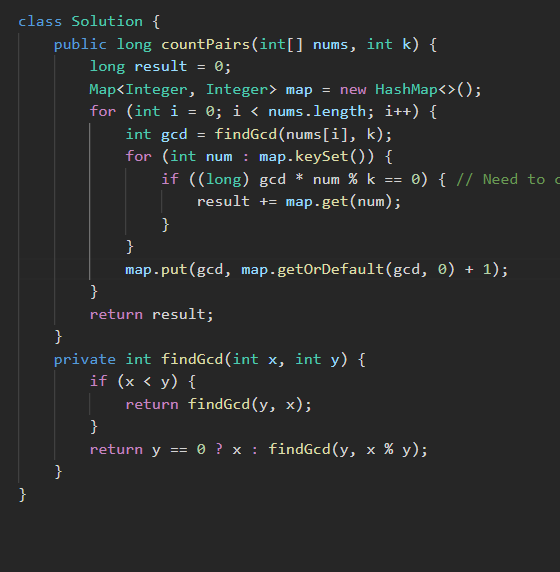
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**22.Count array pairs divisible by k**

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**Important hashing pdf for revision**

[**https://drive.google.com/file/d/1SVAHLw6pGg1wfcxflP8P-YmuT9FC-uWM/view**](https://drive.google.com/file/d/1SVAHLw6pGg1wfcxflP8P-YmuT9FC-uWM/view)