

## Day 20

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Code-

```
class Solution {
public:
    long long ans=0;

    vector<int> fun(int i,int j,int diff,vector<int>&nums)
    {
        if(i==j)return {nums[j]};
        int mid=(i+j)/2;
        vector<int> left=fun(i,mid,diff,nums);
        vector<int> right=fun(mid+1,j,diff,nums);
        int y=0;
        for(int x=0;x<right.size();x++)
        {
            while(y<left.size()&&right[x]+diff>=left[y])y++;
            ans+=y;
        }
        vector<int> new_v(left.size()+right.size());
        merge(left.begin(),left.end(),right.begin(),right.end(),new_v.begin());
        sort(new_v.begin(),new_v.end());
        return new_v;
    }
    long long numberOfPairs(vector<int>& nums1, vector<int>& nums2, int diff) {
        vector<int> nums;
        for(int i=0;i<nums1.size();i++)
        {
            nums.push_back(nums1[i]-nums2[i]);
        }
        fun(0,nums.size()-1,diff,nums);
        return ans;
    }
};
```

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Time complexity –  $O(n \log n)$

Space complexity - $O(n)$

Accepted

Next question

2378. Choose Edges to Maximize Score in a Tree

More challenges

532. K-diff Pairs in an Array1814. Count Nice Pairs in an Array2364. Count Number of Bad Pairs

All statusesAll languages

Accepted  
a few seconds agoC++

Pratik Khandare  
Mar 06, 2023 23:48

Details

C++

Runtime808 ms

Beats95.62%

Memory225.7 MB

Beats

Click the distribution chart to view more details

Notes

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