**3Sum**

#include <bits/stdc++.h>

vector<vector<int>> findTriplets(vector<int>arr, int n, int K) {

vector<vector<int>>ans;

sort(arr.begin(),arr.end());

for(int i=0;i<n;i++){

int front=i+1;

int back=n-1;

int target=K-arr[i];

while(front<back){

int sum=arr[front]+arr[back];

if (sum > target) {

back--;

}

else if (sum<target){

front++;

}

else{

int x=arr[front];

int y=arr[back];

ans.push\_back({arr[i], arr[front], arr[back]});

while(front<back && arr[front]==x){

front++;

}

while (front < back && arr[back] == y) {

back--;

}

}

}

while (i + 1 < n && arr[i] == arr[i + 1]) {

i++;

}

}

return ans;

}