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import java.util.Scanner;
public class Sum {

    public static void main(String[] args) {

        int n;
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the number of array Elements\n");
        n = sc.nextInt();
        int arr[] = new int[n];
        System.out.println("Enter array Elements \n");
        for(int i=0; i<n; i++)
            arr[i] = sc.nextInt();
        System.out.println("Enter the sum \n");
        int sum = sc.nextInt();
        sc.close();
        findpairs(arr, n, sum);
        findtriplets(arr,n,sum);
    }

    static void findpairs(int arr[] , int n, int sum)
    {
        int pairCount = 0;
        for (int i = 0; i < n; i++)
        {
            for (int j = i + 1; j < n; j++)
            {
                if (arr[i] + arr[j] == sum)
                {
                    System.out.println("(" + arr[i] + ", " +
arr[j] + ")");
                    pairCount++;
                }
            }
        }
        if(pairCount == 0)
            System.out.println("No pairs found");
    }
    static void findtriplets(int arr[] , int n, int sum)
    {
        int tripletCount = 0;
        for (int i = 0; i < n; i++)
        {
            for (int j = i + 1; j < n; j++)
            {
                for(int k = j+1; k<n; k++)
                {
                    if (arr[i] + arr[j] + arr[k] == sum)
                    {
                        System.out.println("(" + arr[i]
+ ", " + arr[j] + "," + arr[k] + ")");
                        tripletCount++;
                    }
                }
            }
        }
    }
}

```

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        }  
    }  
    if(tripletCount==0)  
        System.out.println("NO triplets found");  
}  
}
```