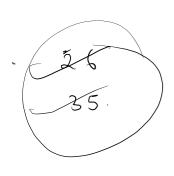
Target Sum

For example arr = [3, 3, 2, 4]

2 4 3 3

2 4

Sample Output 0



The given array is not sorted. The given array may or may not contain duplicate elements. Then take the target as an integer input. Return Pair of target sum in which all pairs are unique, for example: [6, 7], [7, 6] are considered as the same pair.

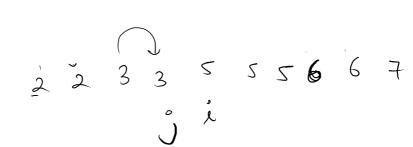
Also if the array has repeated elements then return only unique pairs, for eg: if array is arr = [3, 3, 5,

5], and the target = 8 then result will have only one pair, i.e. [3, 5].

Note: Print the pairs such the smallest integers comes first.

$$1. \longrightarrow 800t$$

$$tar = 8$$



$$8um = 9 \land 8 \quad j- 8um = 8 = = 8$$

```
6 +
       public static void main(String[] args) {
7
            Scanner scn = new Scanner(System.in);
8
            int n = scn.nextInt();
9 *
            int [] A = new int[n];
10 ₹
            for(int i = 0; i < n; i++){
                A[i] = scn.nextInt();
11 v
12
            int tar = scn.nextInt();
13
14
            //sort
            Arrays.sort(A);
15
16
            int i = 0;
            int j = n-1;
17
18 ▼
            while(i < j){
                int sum = A[i] + A[j];
19 ▼
                if(sum == tar){
21 *
22
                    //duplicates
23 ▼
                    while(A[i] == A[i+1]){
24
                        j++;
25
                    while(A[j] == A[j-1]){
26 ▼
27
                        j--;
28
29
                    System.out.println(A[i] + " " + A[j]);
30 ▼
31
                    j++;
32
                    j--;
                }else if(sum > tar){
33 ▼
34
                    j--;
35 ▼
                }else{ //sum < tar</pre>
36
                    j++;
37
38
39
40 }
```

🛱 Add a calendar

2 2 3 3 5 5 5 6 6 7 1

Jun = 9

881. Boats to Save People You are given an array people where people[i] is the weight of the ith person, and an infinite number of boats where each boat can carry a maximum weight of limit. Each boat carries at most two people at the same time, provided the sum of the weight of those people is at most limit. Return the minimum number of boats to carry every given person. Example 2: Input: people = [3,2,2,1], limit = 3

Output: 3

limit = 3. an = 4 / 2 3

= 4

```
class Solution {
1 *
 2 *
          public int numRescueBoats(int[] people, int limit) {
              Arrays.sort(people);
 3
 4
              int i = 0;
 5
 6
              int j = people.length-1;
 7
              int boat = 0;
 8
 9
10 *
              while(i <= j){
11
                  int sum = people[i] + people[j];
12 -
                  if(sum <= limit){</pre>
13
                      i++;
14
                      j--;
15 ▼
                  }else{
16
                      j--;
17
18
                  boat++;
19
20
21
              return boat;
22
      }
23
```

24

3 Sum

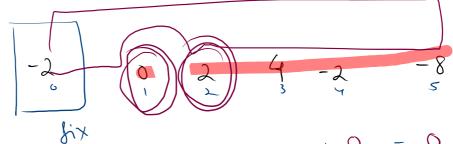
Take an integer array arr as input and print all the triplets [arr[i], arr[j], arr[k]] such that [i] := k, and [i] := k

Notice that the solution set must not contain duplicate triplets.



Sample Input 0

Sample Output 0



$$nty=0$$

$$-2 - 1 0 2 4$$
 $tar = 2$

far = -3 4 5 6 7 2 3 4 5 6 0 sug = 9



```
4 → public class Solution {
 5 +
        public static void main(String[] args) {
 6
            Scanner scn = new Scanner(System.in);
7
            int n = scn.nextInt();
8 *
            int [] A = new int[n];
            for(int i = 0; i < n; i++){
9 *
                A[i] = scn.nextInt();
10 ₹
                                                                                                                       5
11
12
            int tar = 0;
            Arrays.sort(A);
13
14
            //fixing with help of k
15
            for(int k = 0; k < n; k++){
16 +
17 -
                if(k'!= 0 \&\& A[k] == A[k-1]){
18
                    continue;
19
20
21 *
                int nTar = tar - A[k];
                int i = k+1;
23
                int j = n-1;
24
25 ▼
                while(i < j){
26 •
                    int sum = A[i] + A[j];
27
28 •
                    if(sum == nTar){
                        System.out.println(A[k] + " " + A[i] + " " + A[j]);
29 •
30
                        j++;
31
                        j--;
32 ▼
                    } else if(sum > nTar){
33
                        j--;
34 ▼
                    } else{
                                // sum < nTar
35
                        j++;
36
37
38
```