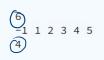
Reach Target - A - sorted

2+2=4



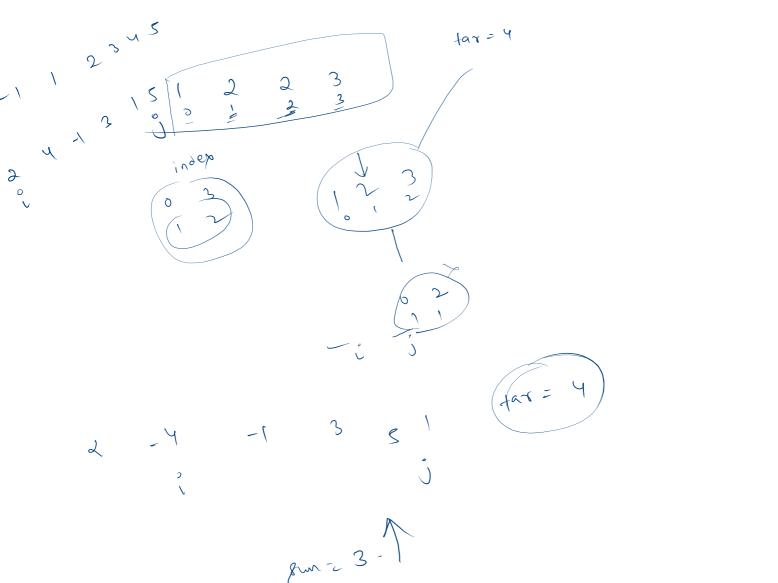


Sample Output 0





```
public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
           int [] A= new int[n];
                                                                                                      5
           for(int i = 0; i < n; i++){
               A[i] = scn.nextInt();
           int tar = scn.nextInt();
           //logic
           int i = 0, j = n-1;
           while(i < j){</pre>
18
               int sum = A[i] + A[j];
19
               if(sum == tar){
20
                    System.out.println(i + " " + j);
21
                    i++;
22
                    j--;
23
24
               else if(sum > tar){
                                                              5
25
                    j--;
26
               }else{//sum < tar</pre>
27
                    j++;
28
29
30
       }
31 }
```



Target Sum

Sample Input 0

4 3 3 5 5 8

Sample Output 0



Explanation 0

$$3 + 5 = 8$$



The given array is <u>not sorted</u>. 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.

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

output should be:





tar = 8 bz= lax

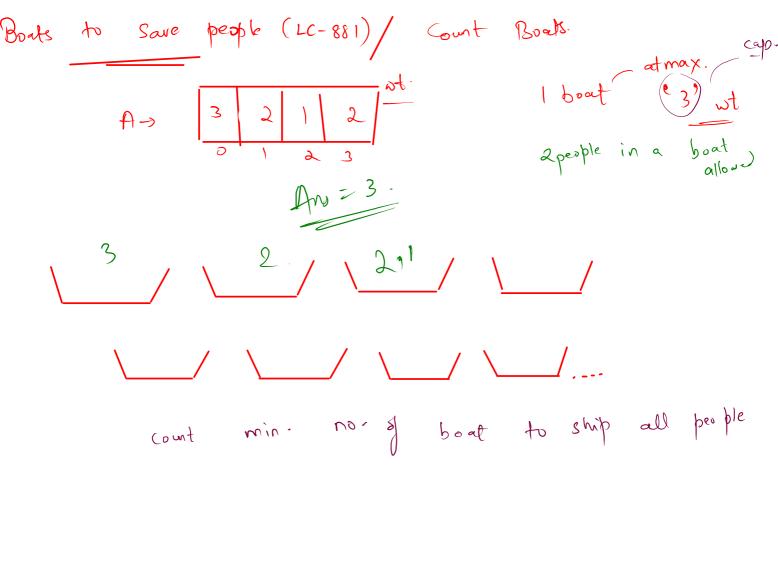
```
public static void main(String[] args) {
6
           Scanner scn = new Scanner(System.in);
8
          int n = scn.nextInt();
9
           int [] A = new int[n];
                                                                                       3
           for(int i = 0; i < n; i++){
10
11
               A[i] = scn.nextInt();
12
13
           int tar = scn.nextInt();
14
           //logic
15
           Arrays.sort(A);
           int i = 0, j = n-1;
16
17
           while(i < j){
18
              int sum = A[i] + A[j];
               if(A[i] == A[i+1]){
19
20
                   j++;
21
               else if(A[j] == A[j-1]){
23
24
               if(sum == tar){
                   System.out.println(A[i] + " " + A[j]);
26
                   j++;
27
                   j--;
                                                                        26
28
               }else if(sum > tar){
29
                   j--;
30
               }else if(sum < tar){</pre>
31
                   i++;
32
33
           }
```

```
Q
                                                                                              7
                                                              3
                                                      2
                                  0
                                                                              0
                                                                             9= 3+5=8
          Arrays.sort(A);
          int i = 0, j = n-1;
16
17
          while(i < j){
18
              int sum = A[i] + A[j];
19
20
              if(sum == tar){
21
                  while(A[i] == A[i+1]){
22
                      i++;
23
24
                  while(A[j] == A[j-1]){
25
                      j--;
26
27
28
                  System.out.println(A[i] + " " + A[j]);
29
                  i++;
30
                  j--;
              }else if(sum > tar){
31
32
                  j--;
33
              }else if(sum < tar){</pre>
34
                  j++;
35
36
37
```

Jan = 8

```
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];
 9 .
            for(int i = 0; i < n; i++){
10 •
                A[i] = scn.nextInt();
11
12
            int tar = scn.nextInt();
13
            //logic
14
            Arrays.sort(A);
15
            int i = 0, j = n-1;
16 🔻
            while(i < j){
17 ▼
                int sum = A[i] + A[j];
18 ▼
                if(sum == tar){
19 ▼
                    while(A[i] == A[i+1]){
20
                         i++;
21
22 •
                    while(A[j] == A[j-1]){
23
                         j--;
24
25 ▼
                    System.out.println(A[i] + " " + A[j]);
26
                    j++;
27
                    j--;
28 ▼
                }else if(sum > tar){
29
                    j--;
30 ▼
                }else if(sum < tar){</pre>
31
                    j++;
```

tan = 8



Cap = 3 2 2 3

8 = 1+3 8 < cap : itt , j = - c > cab

Sa cap
bookly one person

$$as = \beta / \chi^{3}$$

$$as = \beta / \chi^{3}$$

$$s = 1 + \lambda = 3$$

$$s = c \Rightarrow 0$$

$$1 + 2$$

$$3 \leq 3$$

m= \$ x x 3 limit=3 public static void main(String[] args) { O Scanner scn = new Scanner(System.in); int n = scn.nextInt(); int [] A = new int[n]; for(int i = 0; i < n; i++){ A[i] = scn.nextInt(); int limit = scn.nextInt(); //logic Arrays.sort(A); 042 int ans = 0, i = 0, j = n-1; while(i <= j){</pre> int sum = A[i] + A[j];14) if(sum <= limit){</pre> i++; 58 }else{ j--;

8

10

11

12 13

14

15

16 17

18

19 **▼** 20

21

23

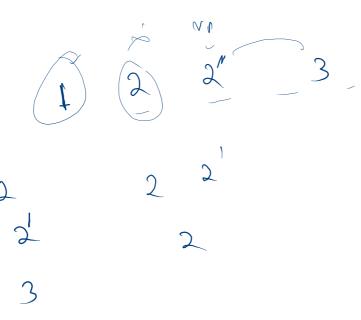
2425

26 27

28 29 } ans++;

System.out.println(ans);

22 •



```
limit = 3
                                                                          M=0
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int [] A = new int[n];
   for(int i = 0; i < n; i++){
       A[i] = scn.nextInt();
    }
   int limit = scn.nextInt();
   //logic
                                                                             020
   Arrays.sort(A);
   int ans = 0, i = 0, j = n-1;
   while(i <= j){
       /int sum = A[i] + A[j];
        if(sum <= limit){</pre>
           j++;
           j--;
        }else{
```

11 🔻

12

13 14

15

16

17

18

19 **1**

21

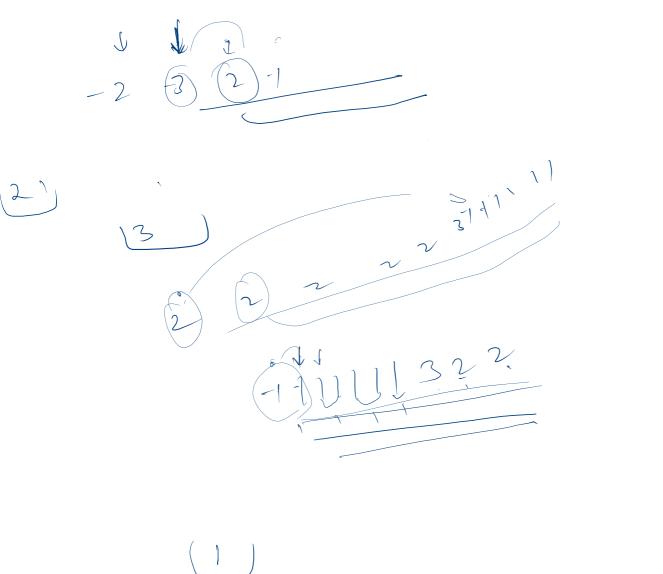
22 •

ans++;

System.out.println(ans);

232425

26



$$(A[c] + A[i] + A[j] = 0$$

$$(A[c] + A[i] + A[j] = -A[c]$$