$$auli] + auli] + aulk] == 0$$

target = -1*WUT[K]

Note:- we are going to sun solution of prev. question K no. of times.

$$n = 6$$
 $0001 = -2 0 2 4 -2 -8$

$$torget = 8220$$

Hrays. sort (wor) for (int k=0; K<n; K++) { bengo 1) déclare l'= K+1, j = n-1; 2) loop i < j 2.1) sum < target itt 2.2) sum > target i--2.3) sum == taget

print over [], aver [], aver []

```
public static void targetTriplet(int[] arr, int n) {
Arrays.sort(arr);
                                                     T \cdot C = O(n \log(n) + n^2)

T \cdot C \stackrel{\sim}{=} O(n^2)
    for (int k = 0; k < n; k++) {
        int target = -1 * arr[k];
        while ( i < j ) {
            int sum = arr[i] + arr[j];
           if ( sum < target ) {</pre>
           } else if ( sum > target ) {
            } else if (sum == target) {
                System.out.println( arr[k] + " " + arr[i] + " " + arr[j] );
              -while ( i < j && arr[i] == arr[i - 1] ) {
                while ( i < j && arr[j] == arr[j + 1] ) {
        // handled dulicay
     while ( k + 1 < n && arr[k] == arr[k + 1] ) {</pre>
```

Count boat

Speople of weight avrili)

Sum = arr [i] + arr [j]

within limit

boats

read.

Cour =
$$\begin{bmatrix} 3 & 3 & 2 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix}$$
 $\begin{bmatrix} 1 & 1 & 1 \\ 2 & 3 & 3 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 & 1 \\ 2 & 3 & 3 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }
    int limit = scn.nextInt();
    System.out.println(boatCount(arr, n, limit));
public static int boatCount(int[] arr, int n, int limit) {
 Arrays.sort(arr);
    int i = 0;
    int j = n - 1;
    int count = 0;
   while (i <= j) {
        int sum = arr[i] + arr[j];
       if ( sum <= limit ) {
            j++;
        count++;
    return count;
```

 $T.C = \left(n\log(n) + n\right)$