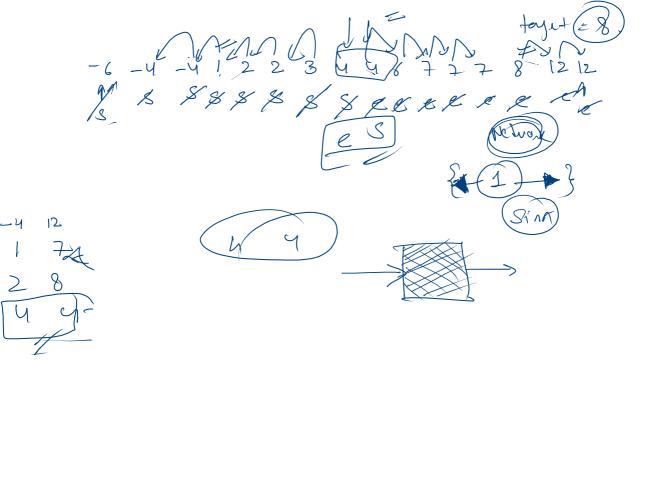
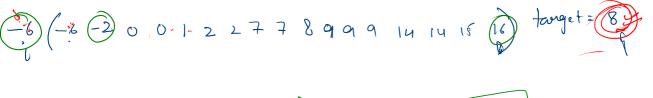
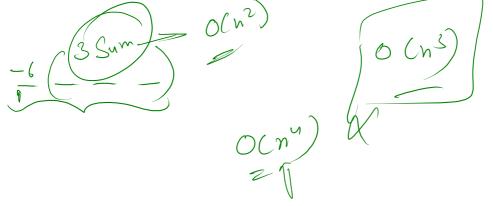
$$\frac{70}{1} + \frac{2}{9} + \frac{1}{9} = \frac{1}{9} + \frac{1}{9} = \frac{1$$







139,84, 49 20, 39 29, 91, 86, 34, 36, 92, 65, 72, 132, 112,126 20 30 34 36 48 65 7072 84 86 91 92 112 126 132 139 boals = \$ 1 2 8 4 max=148 112) 26, 132 139 192 +20 X= 20+30 140 Kgs

```
30 84 86 42 61 65 73 78 90
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(getBoats(arr , limit));
}
public static int getBoats(int[] wts, int cap) {
   Arrays.sort(wts);
   int s = 0, e = wts.length - 1;
   int ans = 0;
   while(s <= e) {
       int sum = wts[s] + wts[e];
       if(sum <= cap) s ++;
       e --;
       ans ++;
   return ans;
}
```

37 $\Rightarrow [1,3,2], 6,8,9,12]$ $\Rightarrow [1] 32 46$

```
public static int[] getPrefixArray(int[] arr) {
    int n = arr.length, gsf = arr[0], ans[] = new int[n];
    for(int i = 0; i < n; i ++) {
        if(arr[i] = gsf) gsf = arr[i];
        ans[i] = gsf;)
    }
    return ans;
}</pre>
```