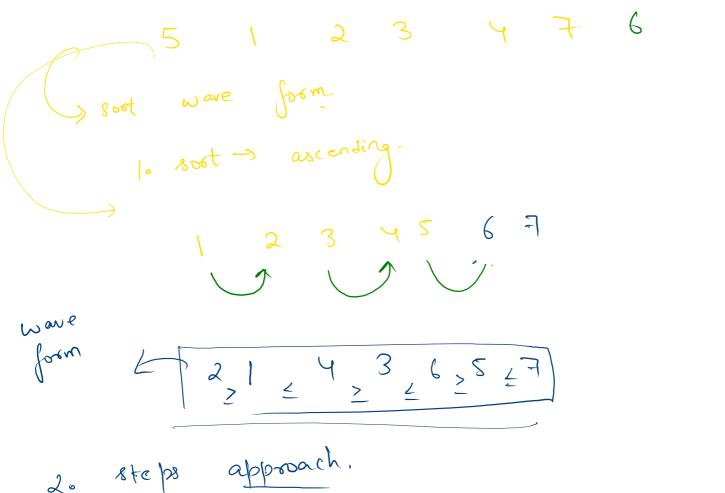
Sort - Range. Revision. Arrays. sort (A, X, y+1) $[\chi , yt]$ () [n, y]

Sort an array in wave form 1



2. Steps approach.

1. Sort.

2. Swap alter.

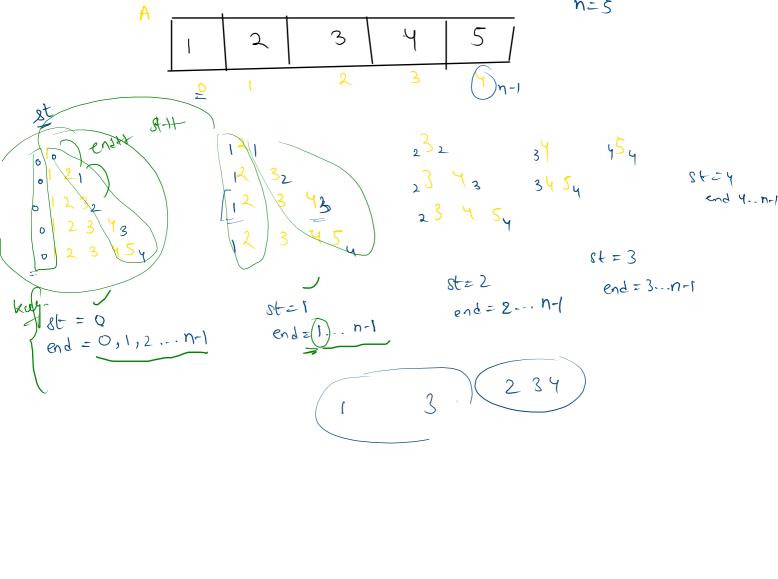
```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Prin
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer [] A = new Integer[n];
    for(int i = 0; i < n; i++){}
        A[i] = scn.nextInt();
    //Step 1: Sort A
    Arrays.sort(A);
    //Step 2: Swap alternatively
    for(int i = 0; i < n-1; i += 2){
        int tmp = A[i];
        A[i] = A[i+1];
       A[i+1] = tmp;
    //print ans
    for(int i = 0; i < n;i++){
        System.out.print(A[i] + " ");
```

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12345

$$n=5$$
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factorial.



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luseg. to no. of.
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```
/* Enter your code here. Read
Scanner scn = new Scanner(System.in);
int n = scn.nextInt();
Integer [] A = new Integer[n];
for(int i = 0; i < n;i++){
   A[i] = scn.nextInt();
for(int st = 0; st < n; st++){
    for(int end = st; end < n; end++){</pre>
       for(int k = st; k <= end; k++){
           System.out.print(A[k] + " ");
        System.out.println();
```

Sum Equals Zero

3) 23 3 1 -1 2 3) 2 3 1 -1

```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print of
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer [] A = new Integer[n];
    for(int i = 0; i < n;i++){
        A[i] = scn.nextInt();
    for(int st = 0; st < n; st++){
        for(int end = st; end < n; end++){</pre>
            int sum = 0;
           for(int k = st; k \le end; k++){
               sum += A[k];
               // System.out.print(A[k] + " ");
            if(sum == 0){
                System.out.println("true");
                return;
    System.out.println("false");
```

Kadene's Algo. **Input:** nums = [-2,1,-3,4,-1,2,1,-5,4]

Sum 1

$$-2 \quad \boxed{1} \quad -\frac{3}{4} \quad \boxed{1} \quad -\frac{1}{4} \quad \boxed{2} \quad \boxed{1}$$

$$3+2=5$$

$$8um \geq 0 \quad \text{add} \quad 2$$

$$8um \geq 0 \quad -8 \quad -2$$

$$-8 \quad -2$$