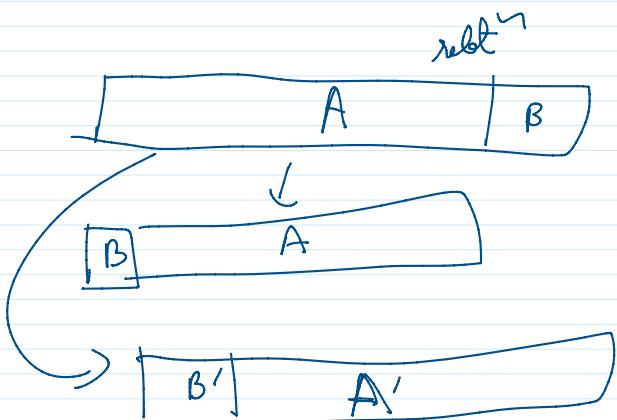
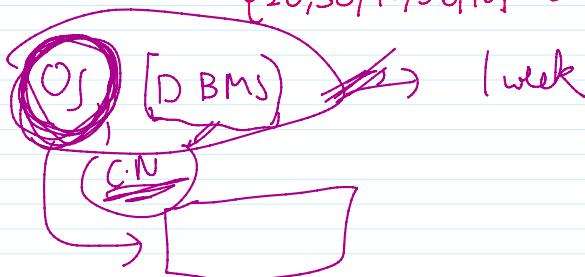


$\{10, 20, 30, 40, 50\}$

→ ←

$\{20, 30, 40, 50, 10\}$ $\{50, 10, 20, 30, 40\}$



Subarrays → subset, seq, contiguous

$\{10, 20, 30, 40\} \rightarrow \frac{n(n+1)}{2}$

$10 \Rightarrow 10$	$20 \Rightarrow 10$	$30 \Rightarrow 30$	$10 = 10$
$10, 20 \Rightarrow 30$	$20, 30 \Rightarrow 30$	$30, 40 \Rightarrow 30$	
$10, 20, 30 \Rightarrow 60$	$20, 30, 40 \Rightarrow 60$		

$$\begin{array}{c}
 10, 20 \Rightarrow 30 \\
 10, 20, 30 \Rightarrow 60 \\
 10, 20, 30, 40 \downarrow \\
 \hline
 100
 \end{array}
 \quad
 \left| \begin{array}{c}
 20, 30 = 50 \\
 20, 30, 70 \\
 \text{``} \\
 90
 \end{array} \right|
 \quad
 \left| \begin{array}{c}
 30, 40 = 70 \\
 \text{``}
 \end{array} \right|$$

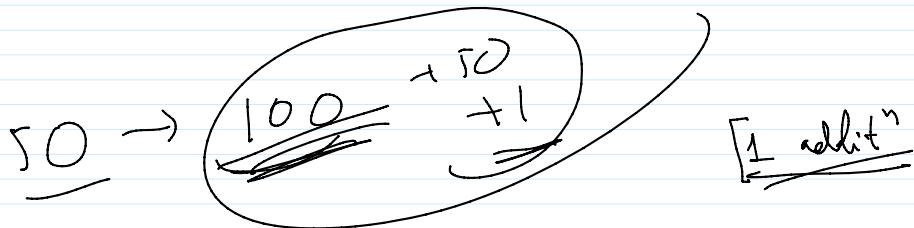
$$- - \quad [\quad . \quad] \quad e \rightarrow s t o 3$$

$$a_4 = N^{-3}$$

$$a_N = 1$$

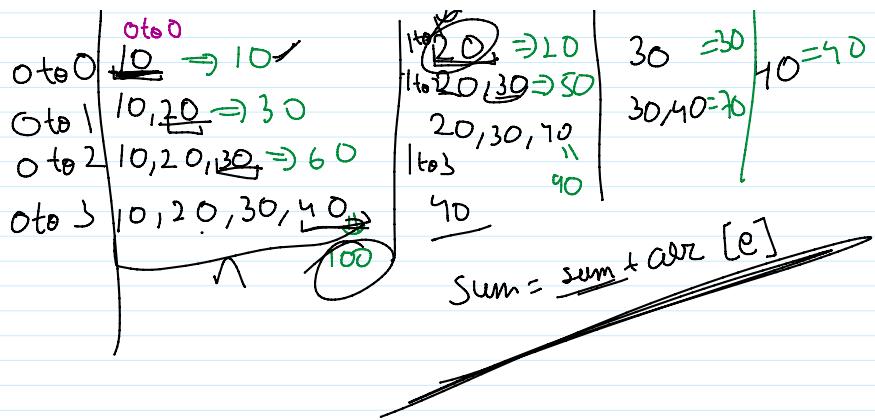
$$n + (n-1) + (n-2) + \dots + 1 = \frac{n \cdot (n+1)}{2}$$

$$\begin{array}{c}
 s_{po}(\text{all}[2]) \\
 s_{po}(\text{all}[s]) \\
 \vdots \\
 s_{po}(\text{all}[10])
 \end{array}
 \quad
 \left| \begin{array}{c}
 \text{all}[s] \\
 \text{all}[s+1] \\
 \vdots \\
 \text{all}[e]
 \end{array} \right.$$

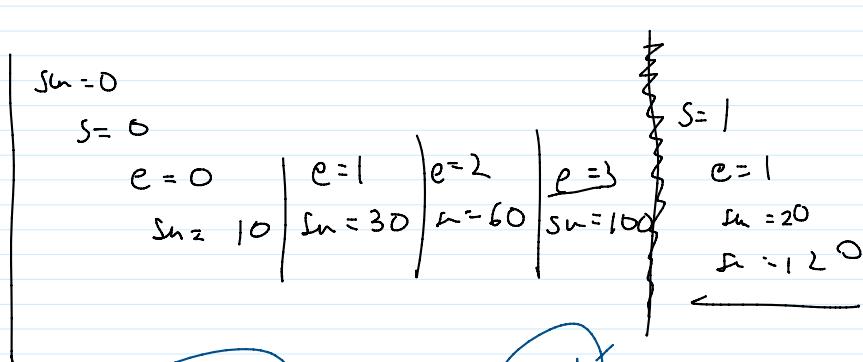


50 50

$$\begin{array}{c}
 s=1 \\
 \text{otso} | \underline{10} \rightarrow 10 \\
 \text{in..in} \rightsquigarrow \text{in..in}
 \end{array}
 \quad
 \left| \begin{array}{c}
 10 \Rightarrow 10 \\
 10, 20 \Rightarrow 30
 \end{array} \right|
 \quad
 \left| \begin{array}{c}
 30 \Rightarrow 30 \\
 \text{in..in} \rightsquigarrow \text{in..in}
 \end{array} \right|
 \quad
 \left| \begin{array}{c}
 10 = 40
 \end{array} \right|$$



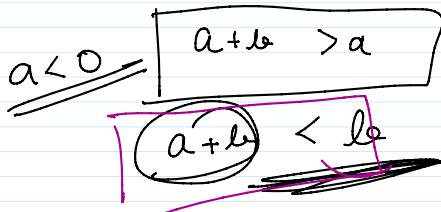
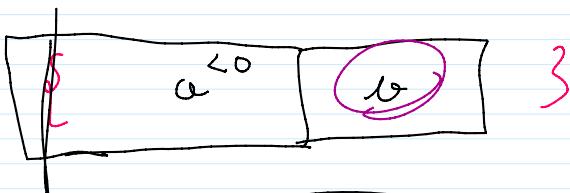
```
{10, 20, 30, 40}
public static void M2(int[] arr) {
    int sum = 0; // A
    for (int s = 0; s < arr.length; s++) {
        int sum = 0; // B
        for (int e = s; e < arr.length; e++) {
            sum = sum + arr[e];
            System.out.println("=>" + sum); // B
        }
    }
}
```



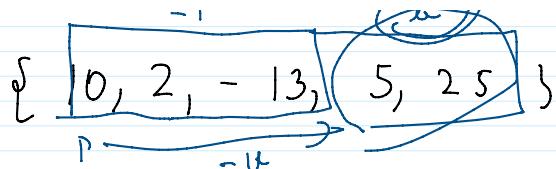
{10, 20, -3, 40} → ↗

{10, 20, -900, 200}

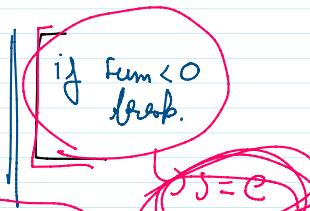
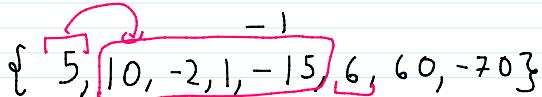
if $\boxed{\text{Sum} < 0}$ $e++$



{10, 2, -13, 5, 25}



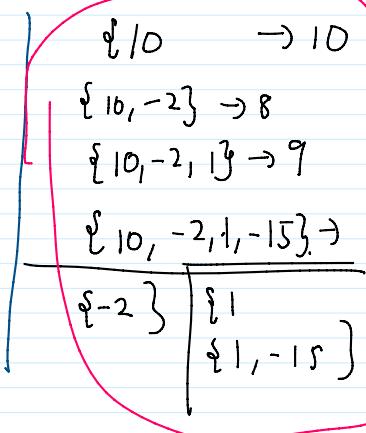
$$a + b < b$$



$\{ 5 \} 5$
 $\{ 5, 10 \} 15$
 $\rightarrow \{ 5, 10, -2 \} 13$

$\{ 5, 10, -2, 1 \} 14$

$\{ 5, 10, -2, 1, -15 \} = -1$



$\{ \underline{5, 10, -2, 1, -15}, \underline{6, 60, -70}, \underline{50, 10} \}$
 ans = ~~15~~ ~~6~~ ~~6~~

$j \rightarrow \underline{5}$

$\{ 10, \underline{2} \} \underline{13}$

$\{ 10, -2 \} \sim \underline{14}$

$\{ 10, -2, 1, -15 \} \underline{-1}$

$\{ 6 \} \rightarrow \underline{6}$

$\{ 6, 60 \} \rightarrow \underline{66}$

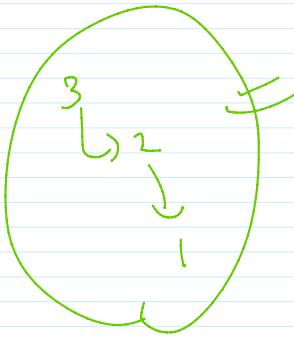
$\{ 6, 60, -70 \} \rightarrow \underline{1}$

$\{ 50 \} \rightarrow \underline{50}$
 $\{ 50, 10 \} \rightarrow \underline{60}$

$\{ 50 \}$
 $\{ 60 \}$

```

int sum = 0;
for (int ali : arr) {
  sum = sum + ali;
  if (sum < 0) {
    sum = 0;
  }
}
    
```



array sole

13

$\{ 5, 10, 15, 20, 25, 30, 35 \}$
 0 1 2 3 4 5 6

13

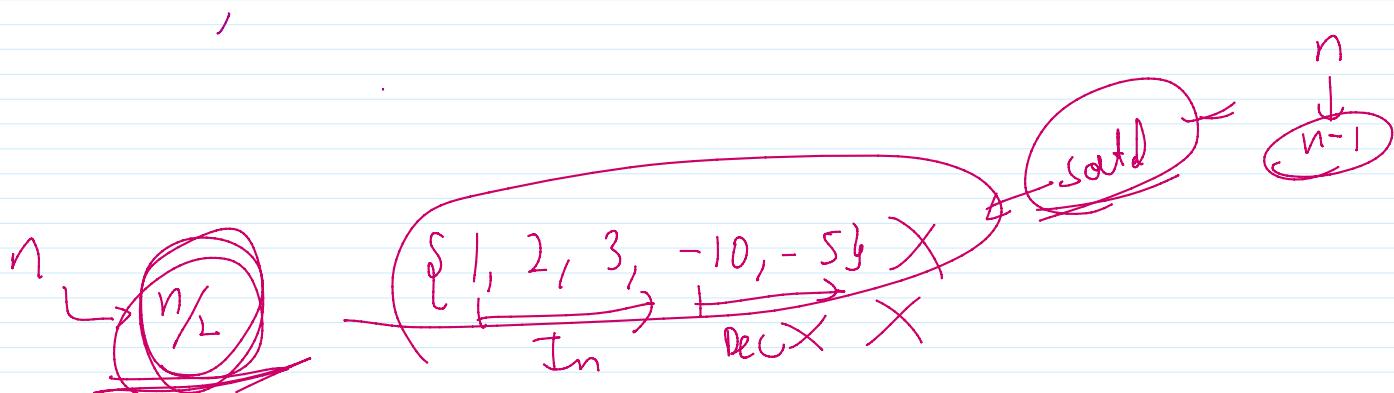
Fri

$\{ 5, \boxed{0, 15} \}$
 0 1

- ← -

$\{ \cdot | \cdot \}$

$\{ \begin{matrix} & \leftarrow \\ 1 & \\ 2 & \end{matrix} \}$



$\{ \begin{matrix} 1, 2, 3, 4 \\ 0, 1, 2, 3 \end{matrix} \}$

$$\frac{0+3}{2} = 1$$

$\{ a_0, a_1, a_2, \dots, a_n \}$

$a_i < a_{i+1} \rightarrow \text{inc}$

$a_i \geq a_{i+1}$