```
\begin{cases} \frac{20}{30}, \frac{20}{30}, \frac{1}{30}, \frac{50}{30}, \frac{50}{30
                                                                                         10,20,30,40,50
                                                                                            50, 40, 30, 20, 10
0 1 2 3 4
                                                                                                                                                                                                                                                                                                                                                                  LKN
                                                                                                                                                                                                                                                                 Heat
                                                                                          perensel
                                                                                                                                                                                                                                                                                              50 40 30 20 10
Rotate An Array

10,20,30,40,50

9=0 10,20,30,40

9=1 50,10,20,30,40

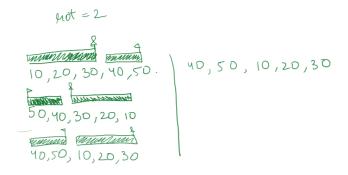
10,50,10,20,30

1=2 30,40,50,10,20
                                                                                                                                                                                                                                                                                    [09 ]

[arr [i+1] = over [i]

290 [0] = last
                                                              M=4 20,30,40,50,10
                                                                                                                      10,20,30,40,50
                                                                                                                                                                                                                                                                                                                                                 last = 50
                                                                                                                              50,10,20,30,40
                                                                                                                                  40,50,10,20,30
                                                                                                                                               30,40,50,10,20
                                                                                                                                                                                                                                                                                              i=0 | i=1
ans[i]=ma ans[i]= ans[i]
                                             public static void rotate(int[] arr) {
                                                                                                                                                                                                                                                                                                    i=2/ i=3
avr[s]=000 avr[4] = avr[3]
                                                                           int last = arr[arr.length - 1];
                                                                           for (int i = 0; i <= arr.length - 2; i++) {
                                                                                         arr[i + 1] = arr[i];
                                                                           arr[0] = last;
                                                                                                                                                                                                                                                                                                             50,10,10,10,10
                                                            }
                                                                                                                                                                                                                                                                                                                       last = 50
                                                                                                                                  50,10,20,30,40
```

10,20,30,40,50,60 10,20,30,40,50,60 10,20,30,40,30,20,60



4

hot = 4 $10, 20, 30, 40 \quad 50, 60 \quad 50$ 60, 10, 20, 30, 40, 50 60, 10, 20, 30, 40, 50 50, 60, 10, 20, 30, 40 $10, 38, 20, 10^{2}$ $10, 38, 20, 10^{2}$ $10, 38, 20, 10^{2}$ $10, 38, 20, 10^{2}$

Steps

5 / e/p

1) rev (arr, 0, n-1) -> Last valo ko age bhejo

2) rev (arr, 0, not 1) -> Last valo ka onder lahi

3) rev (arr, not , n-1) -> Start valo ka onder sohi

Subarray > Tureda? > Contig

$$\begin{cases} 10,20,30,40,50 \end{cases}$$
 30
 $10,20$
 $10,20,30$ 60
 $10,20,30,40$
 $10,20,30,40$
 $10,20,30,40$
 $10,20,30,40$
 $10,20,30,40$
 $10,20,30,40$
 $10,10,30,40,50$
Total number of Subarrays? = $n+n-1+n-2+...+3+2+1$
 $n \times (n+1)$

- 1) Privit All Subarrays? 2) Sum of All Subarrays?
- 3) Max Sum of Subarray? 10,20,30,-4000,50

100 × 100 +1

101

0

Lecture 11 Page 3