

Today's agenda
today's agenda  by Reverse a given Part of array  by Rotate array by K.  by golater than itself  by Two Seem
La Rotate Ossay by K
la Calcales Han itself
li Tan May
W Sum
MALGOPIAN



		(-3 4 2 8 3 9 6 2 8 )
		void reverse (intarrell, ints, in
S:3 4 2 3 3 9	6 8 8 103 2 7	int sp: s;
3	speep t 6 t	while (speep) {  int temp: avolsp];  avolsp]: avolep];
	5	asolep): temp; SP++;
		ep=-;
	<b>\</b>	13



D) Potale the assess
G Criven N elements. Rotate array John last
a) Rotate the assay by the Criven a elements, Rotate array from last to first by K times. I google, meta, amazon?
en: a 70 [77: [3 -2 1 4 6 9 8]
\( \begin{array}{cccccccccccccccccccccccccccccccccccc
2nd 804.
1983-21463 122 504 16983-2143
(K:3)
a 50 (37: (3 -2 1 4 6 9 8)
Revole the whole array.
(8 9 6 4 1 -2 3)
I Reverse the first k elementh
6 9 8 4 1 -2 3 3
I Reverse the elements after K element
(698) 3-2143

## 4698 3-2143



k*p	2 2	4 6	6 1	8
a) a करिंगे: रिप्	6 9	2 14	7 8	33
	weise the			
	<b>—</b>			
	7 14	2 9	6 1	43
	severs	e the first	k elem	ments.
√g 2	14 7		6 1	41
•	•	•	zeverse	He gen. Venerts.
				Cenert
		) P	re	
	14 7	83	41	63
<b>√</b> 9 2	4	2 10	1 6	}
√92	14 7 8	3 4	1 6	<u> </u>
N: 10 8	K:	7	8	erese
<b>~</b> : 10	K :			3



## 11 PSuedo Code

```
P S void main () {
       11 input
       id n:
       ind[] are = new ind[n];
           115+191: reverse whole overy.
           115 tep2: severse the first k elements.

veverse (avo, 0, K-1);
           11Stel3? verue the elements after KH
              reverse (arr, K, n-1);
3
  P S void reverse (intarrell, in s, inte)
        int SP: So
        in er: e;
             while (sprep) {
               ind temp = avolsp];
                asolsP]: asoleP];
                asoler): temp?
                  SP++;
                  er -- ;
            3
```



## K: 1000

a) a 20 [4]: {	4 1 6 9 }	n:4 K: 8
	19047	OBS 3:
	9 4 1 6}	- you will get some
	oof 2	array if you do
	6 9 4 1 }	potation in multiples
	8-13	of arrollength.
	16943	<b>,</b> ,
	780471	
	[4 1 6 9]	
n	K	Same avoay
	ul	timately K%n
5	52	2 rotation -> 52%5
	1.n > dos	2 n-13
	K: K% n ->	this much sotation
		you have to do.



n (arr.leng 4)	K=13		
7	13-7=6	3 6 201.	
7	31 -7 = 2	4-7:17-7:10-	75
	31%7	3	
8	34	3448	2
K	: K". aso.leng	and the second	
	<u> </u>		
8	4	-> 4×8=	4
		ror	
6	9 4	-> 7% 6	=1
	· · · · · · · · · · · · · · · · · · ·		
Bro	k +11 9°.55 p	M	



elements having atleast 1 element greater than
elements having atleast 1 element greates than
en: aso[7]: {-4-3 7 9 3 9 4
088[8]: (3 4 11 8 2 10 9 1
6 one6
ars (5): {777773
AIGOPTED
Obsi: man elements of the array are invalid.
obsi: encert for man element, all the element are valid.
ase volid.
// find the occ. of man element -> count
an = n - Count



int Countgolater (int aro [2]) {  int man: Integer. Min-VALUE;
•
Jor (int i=0; i <n; (aros="" i++)="" if="" si)="" {=""> man) {  man: aros si);</n;>
int Count=0;  Jos (int i:0; i=ass.length; i+t)  if (assli):: man)  Count ++;
octum assolength - County



ind man: Integer min. VALUE; assorting to; i+1) i  man: -6841  man: -6841  man: -6841  Gound: 61  man: -6841  Gound: 61  int cound: 0;  los (int i:0; i <assilength; <="" a="" i+1)="">  Cound +1;  Cound +1;</assilength;>
for (int i=0; 1<1) > man   Count = D     man = arril;   ans : 7-1 = 6
int count = 0; $ans: 7-1=6$
int count = 0; $ans: 7-1=6$
int count = 0; $ans: 7-1=6$
Jos (int i:o; ieass.lengts; i+t) <  Count ++;
Cowl ++;
AlgoPrep
AlgoPrep



Q) Two Sum
h Given N array elements, Check if there enists a Pair (i,j) Such that arrolil tarrolil == K and i::j.
a rais (1, j) such that about tassiff = in and i
Note: il j ale inden value, K is given dum.
en: apr [7]: (2 -1 0 3 2 5 7 3
K=8 b toul
200 [4]: Li 3 -2 63  K=5 6 false
K:5 b false
anoss): d 2 4 -3 7 103
4 + 4 4 blake
ar (6): {351837}
K>6
6 force



```
a = [s]: {3 5 2 7 5 }
  k:12
                               أعأ
                              2,0
                                         3,0
    0,0
                1,0
                                                   4,0
                              2,1
                                         3,1
                                                    4,1
                1,1
                              2,2
    0,2
                                                    4,2
                                          2,2
    0,3
                               2,3
                                          3,3
                                                     4.3
                 1,3
    0,4
                                                     4,4
                              2,4
             n:5
     j \leftarrow 0 \qquad 1 \qquad 2
j \leftarrow 234) \quad j \leftarrow 234) \quad j \leftarrow (23,4)
```

Public	Static by	oolean	twosum (intasol] intel
	int neason	erg#;	< n-1
	los (int i	eos ix	: n-2; i++)1
	100	Line j:	1413 j < n ; j ++ ) {
		146	arolija arelij == KX return toul;
			setum toul;
		)	
	3		
	2		

oltum false;

n:5 K:11

blic Static boolean twosum (	•	į	j	000 (i)+
100 (int 1=05 1 < n-1 ; it	+ ){	0	1	8
for Line j: i+1; j<1			3 4 Smen	8
if (aroli) + ar	oul;	1	3	12
l l			•	
3		2		
2				
		3		
2	a 50 (s): 4	0 1 2 .	2 4	
	८ च्हारडी : १ k:12	ه کا		
	0,0		3,0	4,0
	0,2		2,2	4,1
		,3 2,3	3,3	4,3
	0,4		3,4	>4,4
	n=5			
Active learning		0 001 00	1001	ni ne
		Passive	/ew	
H.W				

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