



reversed = [Z, Y, X, D, C, B, A] Softed unsorted iteration 0: [2/4, x, D, C, B, A] iteration 1: [(), 2, 1x, D, C, B, H] iteration 2: [D, y, Z, D, C, B, H] iteration 3: (1) x, y, 2, 10, 13, H] iteration 4: [OD, X, Y, 7, 8, 4] iteration 5: (B)(, D, X, Y, Z/A) iteration 6: [A) B, C, D, X, Y, 2]

	left L = X			
right 2 x				
Quick Sort				
random = [0, x, H, B, y, c, 2]				
Tangoni - Lojn,	",",","			
11 1 2:50 V 11 2 V 1 2 7				
iteration 0: [D, X, H, B, Y, C, Z]				
2, X, H, B, Y, C, D				
X, H, B, Y, C, Z, D, p: vot = D				
1. / 1				
C, H, B, Y, X, Z, D				
C, H, B, D, X, X, E				
Pirot C	pivot y			
(,A,B,C	x, 2 , y -			
17 1	$\hat{\tau}$			
J 1 C,	3 1			
,	× , , , }			
exot=H				
A B, A	1 1			
7	The state of the s			
4 3				
1				
BV	4 1			
+ 1		-35-		
.0 (0 1 7			
A , B , C ,	D, X, Y, Z			

Sorted = $[A, B, C, D, X, Y, t]$				
[A,B,C,P,x,y,z]				
Rijot = A				
B,C,D,X,Y,Z,H				
1,5				
A, MC, DX, Y, Z, B				
Pirot C				
D, X, Y, B, C				
1				
B, x, y, 2, D, C				
5 1				
B, E, ×, Y, ₹, D				
2 pivot x				
B V 2 D V				
4, 7, D, X				
D, ₹, Y, X				
1				
5 1				
D, X, Z, Y				
1 1 V pivot 2				
A, B, C, D, K, Y, 2 P, V, 2				
了 A A A A A A A A A A A A A A A A A A A				

reversed = [Z,Y,X,D,C,B,+]	-
	9
7, Y, X, D, C, B, A	9
p:vot=2	5
	5
Y, x, D, C, B, H, Z	9
7	
Y, x, D, C, B, H Z,	2
Rivot Y d	
Y D C D U	
*, D, C, D, H, Y	
	•
PivotH & X	
D,C,B,H,X	•
pint D1	•
C, B, H, P,	6
1 pivot	
B, 4, C	
1 pilo+B	8
A, B,	
1, 1	
A J J	0
4, B, C, D, X, Y, 7	0

Cocktail Sort random = [D, x, H, B, Y, C, Z] Iteration O: [D, X, A, B, Y, C, Z] Iteration 1: [D, H, 13, X, C, Y, 2], 3 swaps iteration 2! [A, D, B, C, X, Y, Z] #, D, B, C, X, Y, Z buckward 500p3 = 2 12 iteration 3: CH, B, C, D, X, Y, 2] swaps = 2 iteration 4: [H,13, C,D, X, Y, 2] , 5waps = 0 bur Kward

Sorted = [#, B, C, P, X, Y, Z] iteration 0: [A, B, C, D, X, Y, 2] justion 2: [H,B,C,P,X,Y,Z], swaps = 0

reversed = [Z, Y, x, D, C, B, H] iteration O: [Z, Y, X, D, C, B, H] [Y, X, D, C, B, H, Z] Swaps = 6 iteration 1: forward iteration backward forward [H, B, C, D, X, Y, Z iteration 6! buckward Fration 7: [A, B, C, D, X, Y, 2]