Selection Sort

23 October 2023 12:46

Iteration 1									
	[0]	[1]	[2]	[2]	Г.	41	[E]		
	[0]	[1]	[2]	[3]		4]	[5]		30 > 20 ? Yes swap
	30	20	60	50	1	.0	40		3 ap
	Sel_pos	pos							
	[0]	[1]	[2]	[3	3]	[4]	[5]	20 > 60 ? no
	20	30	60	5	0	10	4()	
	Sel_pos		pos						
	[0]	[4]	[2	1	[2]	[4]		re1	
	[0]	[1]	[2		[3]	[4]		[5]	20 > 50 ? no
	20	30	60		50	10	-	40	
	Sel_pos			ро	S				
	[0]	[2	.]	[2]	[3]	[4]		[5]	20 > 10 ? Ye
	20	3	0	60	50	10		40	swap
	Sel_pos					pos	·		
	[0]	T.	1	[2]	[2]	[4]		[E]	
	[0]	[1		[2]	[3]	[4]		[5]	10 > 40 ? no
	10	3	U	60	50	20		40	
	Sel_po	S						pos	
	[0]	[1	L]	[2]	[3]	[4]		[5]	
	10	3	0	60	50	20		40	
Iteration 2 :	[0]	[1	1	[2]	[3]	[4]		[5]	
	10	3		60	50	20		40	30 > 60 ? no
					30	20		40	
		Sel_ _l	oos p	os					
		[0]	[1]	[2]	[3]		[4]	[5]	30 > 50 ? ı
		4.0	30	60	50		20	40	
		<mark>10</mark>			•		<u>'</u>		
			_pos		pos				
		Se		[2]		ſ,	11	[5]	
	[(Se	[1]	[2]	[3]	[4		[5]	_
		Se 0] 0	[1] 30	[2] 60		[2 2 pos		[5] 40	30 > 20 ? Ye swap
	[(Se 0] 0	[1]		[3]	2			_
	[[0]	Se 0] 0	[1] 30		[3]	pos			30 > 20 ? Ye swap

Sel_pos

pos

	[0]	[1]	[2]	[3]	[4]	[5]	
	<mark>10</mark>	<mark>20</mark>	60	50	30	40	
Iteration 3							
	[O]	[1]	[2]	[3]	[4]	[5]	
	<mark>10</mark>	<mark>20</mark>	60	50	30	40	60 > 50 ? Yes swap
			Sel_pos	pos			
	[0]	[1]	[2]	[3]	[4]	[5]	
	10	20	50	60	30	40	Arr[sel_pos] > arr[pos] 50 > 30 ? Yes
	10		Sel_pos	- 55	pos	70	swap
			- 5pos		1000		
	[O]	[1]	[2]	[3]	[4]	[5]	20 122
	10	20	30	60	50	40	30 > 40 ? no
	10	20	Sel_pos		30	pos	
			3ei_p0	•		hos	
	[0]	[1]	[2]	[3]	[4]	[5]	
	10	20	30 30	60	50	40	
	10	20	30	00	30	40	
	[0] 10	[1] 20	[2] 30	[3] 60 Sel pos	[4] 50	[5] 40	Arr[sel_pos] > arr[60 > 50 ? Yes swap
				Sel_pos	pos		
	[0]	[1]	ı rə	1 [2]	[4]	[[]	
	[0]						50 > 40 ? Yes swap
	<mark>10</mark>	<mark>20</mark>	<mark>) 3(</mark>	50 Sel_pos		40 pos	31145
				sei_pos		μυs	
	[() <mark>[[</mark>	[1]	[2]	3] [4	4] [5]	
	1	0 2	20	<mark>30 4</mark>	<mark>-0</mark> 6	50 50	
			,	'		'	
Iteration 5							
	[0]	[1]	[2]	[3]	[4]	[5]	
	10	20	30	40	60	50	60 > 50 ? Yes
					Sel_pos		swap
	[0]	[1]	[2	<mark>]</mark> [3]	[4]	[5]	
	10						
						l .	
N	lo of iterations / pas	ses : n - 1 = 6-1 = 5		No of compa		.) + (n-2) + (n-3) +3+2+1	1
					= 15		