I=0 J=9 J=8 J=7 J=6 J=5 J=4 J=3 J=2 J=1	a=	3 12 44 11 11 12 3 11	11 . 44		33 11 72	11	18	42	42 65 Swapped = True Swapped = False Swapped = False Swapped = True
I=1 J=9 J=8 J=7 J=6 J=5 J=4 J=3 J=2	a=	3 11 12 12 11 12	18 2 18	99 18 44	18	33 18 72	18	42	65 65 Swapped = False Swapped = False Swapped = True Swapped = True Swapped = True Swapped = True Swapped = False Swapped = False
I=2 J=9 J=8 J=7 J=6 J=5 J=4 J=3	a=	3 11 12				72 33 99	33	42	65 65 Swapped = False Swapped = False Swapped = True Swapped = True Swapped = True Swapped = True Swapped = False
I=3 J=9 J=8 J=7 J=6 J=5 J=4	a=	3 11 12			42 44	42 44	42 99	42	65 65 Swapped = False Swapped = True Swapped = True Swapped = True Swapped = False Swapped = False
I=4 J=9 J=8 J=7 J=6 J=5	a=	3 11 12	2 18			44 44	65 54	65	65 72 Swapped = True Swapped = False Swapped = False Swapped = False Swapped = False
I=5 J=9	a=	3 11 12	2 18	33	42	44			72 99 Swapped = True

J=8 J=7 J=6 Final Array =	= 3,11,12,18,33,42,4	4,6	5,72	2,9	9		42 4	44 65	72	Swapped = False Swapped = False Swapped = False
I=0 J=9 J=8 J=7 J=6 J=5 J=4 J=3 J=2 J=1	a=	8	6 3 8		3 42	3 11	3 £	3 88	3 40	9 Swapped = True
I=1	a=	3	8		42	11 11	5 5	19 88 9 9 19 9	9 88	40 Swapped = True
J=3 J=2		3	8	6	42					
I=2	a=	3	8	6	42	11	5	9 19		40 88 Swapped = True
I=3 J=9 J=8 J=7 J=6 J=5 J=4	a=	3	8	5	5	5 42	5 5 11	9 19 10 9 19 9	40 40	88
			5 3	8						Swapped = True
I=4 J=9 J=8 J=7 J=6 J=5	a=	3	5	8	6		9 £ 42	9 19	40 40	88 Swapped = False

I=5 J=9 J=8 J=7 J=6	a=	3	5	8	6	9			19		88	Swapped = False Swapped = False Swapped = False Swapped = True
I=6 J=9 J=8 J=7	a=	3	5	8	6	9			42	40 40	88	Swapped = False Swapped = False Swapped = True Swapped = False
I=7 J=9 J=8	a=	3	5	8	6	9	11	19	42 40		88	Swapped = False Swapped = True
I=8 J=9	a=	3	5	8 6	6 8	9	11	19	40	42		Swapped = True
-	3,5,6,8,11,19,40,42	2,88 0		2	3	4	5	6	7	8	9	
I=0 exch(a.0.0) I=1	a=	3	12	44	99	72	33	11	18	65	42	
exch(a,1,6) I=2	a=	3	<u>11</u>	44	99	72	33	<u>12</u>	18	65	42	
exch(a,2,6) I=3	a=	3	11	<u>12</u>	99	72	33	<u>44</u>	18	65	42	
exch(a,3,7) I=4	a=	3	11	12	<u>18</u>	72	33	44	99	65	42	
exch(a,4,5) I=5	a=	3	11	12	18	<u>33</u>	<u>72</u>	44	99	65	42	
exch(a,5,9) I=6	a=	3	11	12	18	33	<u>42</u>	44	99	65	<u>72</u>	
exch(a,6,6)	a=	3	11	12	18	33	42	<u>44</u>	99	65	72	
I=7												
I=7 exch(a,7,8) I=8	a=	3	11	12	18	33	42	44	<u>65</u>	<u>99</u>	72	

Final Array = 3,11,12,18,33,42,44,65,72,99

		8			11 3							
I=0		Ū	_	_	Ŭ	•	Ū	Ŭ	•	Ŭ	Ū	
exch(a,0,9) I=1	a=	<u>3</u>	6	42	11	5	19	88	40	9	8	
exch(a,1,4) I=2	a=	3	<u>5</u>	42	11	6	19	88	40	9	8	
exch(a,2,4) I=3	a=	3	5	<u>6</u>	11	42	19	88	40	9	8	
exch(a,3,9) I=4	a=	3	5	6	<u>8</u>	42	19	88	40	9	11	
exch(a,4,8) I=5	a=	3	5	6	8	<u>9</u>	19	88	40	<u>42</u>	11	
exch(a,5,9) I=6	a=	3	5	6	8	9	<u>11</u>	88	40	42	<u>19</u>	
exch(a,6,7) I=7	a=	3	5	6	8	9	11	<u>19</u>	40	42	<u>88</u>	
exch(a,7,7) I=8	a=	3	5	6	8	9	11	19	40	42	88	
exch(a,8,8) Final Array =	a= : 3,5,6,8,11,19,40,42			6	8	9	11	19	40	42	88	
I=1 J=1	a=			44								Underline indicates front of subarray Exchange = False
I=2 J=2	a=			44 <u>44</u>	99	72	33	11	18	65	42	Exchange = False
I=3 J=3	a=				99 <u>99</u>		33	11	18	65	42	Exchange = False
I=4 J=4	a=				99 <b>72</b>			11	18	65	42	Exchange = True
I=5 J=5 J=4 J=3	a=	3	12		72 <b>33</b> <b>44</b>	33 72	33 <b>99</b>		18	65	42	Exchange = True Exchange = True Exchange = True
I=6 J=6 J=5 J=4 J=3 J=2	a=				33		_	<u>99</u>		65	42	Exchange = True
I=7	a=	3	11	12	33	44	72	<u>99</u>	18	65	42	

J=7 J=6 J=5 J=4		18 18 44 18 33	18 <u>99</u> 3 72 1	Exchange = True Exchange = True Exchange = True Exchange = True
I=8 J=8 J=7	a=	3 11 12 18 33 44	65 99 65 42 65 72	Exchange = True Exchange = True
I=9 J=9 J=8 J=7 J=6	a=	3 11 12 18 33 44		Exchange = True

Final Array = 3,11,12,18,33,42,44,65,72,99

I=1 J=1	a=	Bold indicates swap Underline 6 42 11 5 19 88 40 9 3 of subarra Exchange	-
I=2 J=2	a=	8 42 11 5 19 88 40 9 3 8 42 Exchange	= False
I=3 J=3	a=	8 <u>42</u> 11 5 19 88 40 9 3 <b>11 <u>42</u></b> Exchange	= True
I=4 J=4 J=3 J=2 J=1	a=	8 11 42 5 19 88 40 9 3  5 42 Exchange  5 11 Exchange  5 8 Exchange  6 Exchange	e = True e = True
I=5 J=5	a=	6 8 11 <u>42</u> 19 88 40 9 3 <b>19</b> <u>42</u> Exchange	= True
I=6 J=6	a=	6 8 11 19 <u>42</u> 88 40 9 3 42 <u>88</u> Exchange	= False
I=7 J=7 J=6	a=	6 8 11 19 42 <u>88</u> 40 9 3 <b>40 88</b> Exchange <b>40 42</b> Exchange	
I=8 J=8 J=7 J=6 J=5 J=4	a=	6 8 11 19 40 42 88 9 3  9 88 Exchange 9 40 Exchange 9 19 Exchange 9 11 Exchange	e = True e = True e = True
I=9 J=9 J=8 J=7 J=6 J=5 J=4 J=3 J=2		6 8 9 11 19 40 42 88 3  3 88 Exchange 3 42 Exchange 3 40 Exchange 3 19 Exchange 3 11 Exchange 3 9 Exchange 3 8 Exchange 5 Exchange 6 2 Exchange 7 3 8 Exchange 7 3 6 Exchange	e = True e = True e = True e = True e = True e = True

Swapped = Tr