







































Original	34	8	64	51	32	21	Positions Moved
After $p = 1$	8	34	64	51	32	21	1
After $p = 2$	8	34	64	51	32	21	0
After $p = 3$	8	.34	51	64	32	21	1
After $p = 4$	8	32	34	51	64	21	3
After $p = 5$	8	21	32	34	51	64	4



o sort the followir	ng numbers in increasing order:
34 8 64 51 32	2 21
p = 1; tmp = 8;	
34 > tmp, so seco	ond element a[1] is set to 34: {8, 34}
34 > tmp, so seco We have reached	ond element a[1] is set to 34: {8, 34} d the front of the list. Thus, 1st position a[0] = tmp=8
34 > tmp, so seco We have reached After 1st pass: <u>8</u>	ond element a[1] is set to 34: {8, 34} d the front of the list. Thus, 1st position a[0] = tmp=8 <u>34</u> 64 51 32 21

$34 < 64$ , so stop at $3^{rd}$ position and set $3^{rd}$ position = 64	
After 2nd pass: 8 34 64 51 32 21	
(first 3 elements are sorted)	
<sup>2</sup> = 3; tmp = 51;	
51 < 64, so we have 8 34 64 64 32 21,	
34 < 51, so stop at 2nd position, set 3 <sup>rd</sup> position = tmp,	
After 3rd pass: 8 34 51 64 32 21	
(first 4 elements are sorted)	
<sup>o</sup> = 4; tmp = 32,	
32 < 64, so 8 34 51 64 64 21,	
32 < 51, so 8  34  51  51  64  21,	
next 32 < 34, so 8 34 34, 51 64 21,	
next $32 > 8$ , so stop at 1st position and set $2^{nd}$ position = 32,	
After 4th pass: 8 32 34 51 64 21	
P = 5 tmp = 21	







