

A solution for sandwich 1s 2s 3s:

	3	1	2	1	3	2			

A solution for sandwich 1s 2s 3s 4s:

	4	1	3	1	2	4	3	2		

A solution for sandwich 1s 2s 3s 4s 5s 6s 7s:

	5	7	2	3	6	2	5	3	4	7	1	6	1	4	

I did it by trial and error.