Language	MATLAB/Octave	Python	R				
Example data	a = [ 4 3 2 ; 2 8 6 ; 1 4 7 ]	a = array([[4,3,2],[2,8,6],[1,4,7]])		2	3 8 4	$\begin{bmatrix} 2 \\ 6 \\ 7 \end{bmatrix}$	
Flat and sorted	sort(a(:))	a.ravel().sort() or	t(sort(a))	١ .	4	2 4 8	
Sort each column	sort(a)	a.sort(axis=0) or msort(a)	apply(a,2,sort)	2		$\begin{bmatrix} 2 \\ 6 \\ 7 \end{bmatrix}$	
Sort each row	sort(a')'	a.sort(axis=1)	t(apply(a,1,sort))	2 2	3	4 8 7	
Sort rows (by first row)	sortrows(a,1)	a[a[:,0].argsort(),]		2		7 6 2	
Sort, return indices Sort each column, return indices Sort each row, return indices		<pre>a.ravel().argsort() a.argsort(axis=0) a.argsort(axis=1)</pre>	order(a)	L '		٦	