

Language	MATLAB/Octave	Python	R
1,2,3, ... ,10	1:10	arange(1,11, dtype=Float) range(1,11)	seq(10) <b>or</b> 1:10
0.0,1.0,2.0, ... ,9.0	0:9	arange(10.)	seq(0,length=10)
1,4,7,10	1:3:10	arange(1,11,3)	seq(1,10,by=3)
10,9,8, ... ,1	10:-1:1	arange(10,0,-1)	seq(10,1) <b>or</b> 10:1
10,7,4,1	10:-3:1	arange(10,0,-3)	seq(from=10,to=1,by=-3)
Linearly spaced vector of n=7 points	linspace(1,10,7)	linspace(1,10,7)	seq(1,10,length=7)
Reverse	reverse(a)	a[::-1] <b>or</b>	rev(a)
Set all values to same scalar value	a(:) = 3	a.fill(3), a[:] = 3	