,		X	Υ	Z
.	separator .' (transpose) / permute	rot90	system	full
	for	repmat	repelem (run-length decoding)	blanks
	specify outputs	display stack (debug)		fopen, fwrite, fclose
	specify inputs	alana	char(vpa())	fopen, fread, fclose
% &	comment alternative default input/output spec	class intersect	cast and	typecast bitand
	Not used. String delimiter	into occ	run-length encoding	now / clock
(() assignment indexing / split	{ } assignment indexing	() assignment ind. with final: / split	() assignment ind. with initial: / split
) *	() reference indexing	{ } reference indexing kron	() reference ind. with final :	() reference ind. with initial : Cartesian product
+	+	KIOII	matrix product conv2	conv2(, 'same')
,		cos	sin	tan
-	-	setdiff	deconv	1-14
,	break /	continue angle	pause matrix /	bitget unwrap
o	Not used	predefined literals	predefined literals	иттар
	Not used	predefined literals	predefined literals	
	Not used	predefined literals	predefined literals predefined literals	
	Not used Not used	predefined literals predefined literals	predefined interais	
	Not used	predefined literals		
	Not used	predefined literals		
	Not used	predefined literals		
8 9	Not used Not used	predefined literals predefined literals		
	colon (function)	linearize array	comma-separated list	bitset
;	•	acos	asin	atan2
٠.	<u><</u>	min isequal	cummin strcmp	strncmp
	>	max	cummax	эшныпр
?	if		why	sparse
	push "for" value / "while" index	push "for" index	perms	randperm
	all logical(dec2bin()-'0')	all(, 1) bin2dec(char(+'0'))	dec2base. Larger base, any symbols dec2bin	base2dec. Larger base, any symbols bin2dec
c	logical(deczbiii()-0)	histcounts	im2col	im2col(, 'distinct')
D	disp(num2str(,))	disp(num2str())	sprintf / fprintf	disp
E	multiply by 2	replace elements in array		
	Not used. False (literal) Paste from clipboard G (user-input)	plot	exponents of prime factorization imwrite / imagesc / image / imshow	appearance of graphics / format
Н	Paste from clipboard H	Copy to clipboard H	mayes rillage rillishow	appearance or grapines / format
ı	Paste from clipboard I	Copy to clipboard I	col2im	
	Paste from clipboard J	Copy to clipboard J		
K L	Paste from clipboard K Paste from clipboard L (multi-level)	Copy to clipboard K Copy to clipboard L (multi-level)	gallery	
М	Paste from clipboard M (function-input)	mode	guilory	
N	stack size	nchoosek (array)	NaN	isnan
	Zeros	datestr	datenum	datevec
	flip increment by 1	flipud accumarray	pi	pdist2 polyval / roots / polyfit
	triu	triu(,1) / build matrix	tril	tril(,-1) / build matrix
s	sort	sortrows	circshift	sign
	Not used. True (literal)	etr2double	toeplitz	
	str2num / string to array / square num2str	str2double	1	
w	2 raised to input			
	Not used	regexp	regexprep	: - : - £
	Not used Not used		inf	isinf
	Not used. Array delimiter	ind2sub		
Ň	mod	mod(1)+1	matrix \	
	end (loops or conditional branches)	sub2ind		
^	^	- cont		0-4
	unary minus	sqrt	matrix ^	Cartesian power
	unary minus dowhile	sqrt while	matrix ^	Cartesian power toc
а	dowhile any	•	tic padarray / unpad array	·
a b	dowhile any bubble	while any(, 1)	tic padarray / unpad array strsplit	toc base2base
a b c	dowhile any bubble char (also for cell array)	while any(, 1) cat	tic padarray / unpad array strsplit strcat	toc base2base strjoin
a b c d	dowhile any bubble	while any(, 1) cat diag / spdiags	tic padarray / unpad array strsplit	toc base2base
a b c d e f	dowhile any bubble char (also for cell array) diff reshape / squeeze find	while any(, 1) cat diag / spdiags strfind	tic padarray / unpad array strsplit strcat blkdiag factor	toc base2base strjoin gcd exp
a b c d e f	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat	while any(, 1) cat diag / spdiags strfind ndgrid	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc	strjoin gcd exp gammaln / betaln
a b c d e f g h	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat	while any(, 1) cat diag / spdiags strfind	tic padarray / unpad array strsplit strcat blkdiag factor	toc base2base strjoin gcd exp
abcdefghij	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s')	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag	strjoin gcd exp gammaln / betaln
abcdefghijk	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor	while any(, 1) cat diag / spdiags strfind ndgrid {}	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values	strjoin gcd exp gammaln / betaln hypergeom conj
abcdef ghijkı	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil	tic padarray / unpad array strsplit strstlit strkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base	strjoin gcd exp gammain / betain hypergeom conj
a b c d e f g h i j k l m n	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1	strjoin gcd exp gammaln / betaln hypergeom conj
abcdef ghijklmno	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(, 'rows') nchoosek (numbers) / multinomial c. int64	tic padarray / unpad array strsplit strsplit strkdiag factor gamma / gammainc / betainc hankel imread imag iclosest values log. With two inputs, specifies base mean poly / interp1 round / change case	toc base2base strjoin gcd exp gammaln / betain hypergeom conj log2 lcm fix
abcdef ghijkl mnop	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,)	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod	strjoin gcd exp gammain / betain hypergeom conj log2 lcm fix isprime / totient function
abcdef ghijkl mnop	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod n-th prime / next prime	strjoin gcd exp gammain / betain hypergeom conj log2 lcm fix isprime / totient function primes
abcdef ghijklmnopqrs	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,)	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod	strjoin gcd exp gammaln / betaln hypergeom conj log2 lcm fix isprime / totient function primes randsample std / cov
a b c d e f g h i j k l m n o p q r s t	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,)	tic padarray / unpad array strsplit strsplit strkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cunth prime / next prime randi	strjoin gcd exp gammaln / betain hypergeom conj log2 lcm fix isprime / totient function primes randsample std / cov strrep
a b c d e f g h i j k l m n o p q r s t u	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn	tic padarray / unpad array strsplit strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cunth prime / next prime randi cumsum	toc base2base strjoin gcd exp gammaln / betain hypergeom conj log2 icm fix isprime / totient function primes randsample std / cov strrep stripst
abcdef ghijkl mnopqrst uv	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cellzmat horzcat input input(,s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,)	tic padarray / unpad array strsplit strsplit strkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cunth prime / next prime randi	strjoin gcd exp gammaln / betain hypergeom conj log2 lcm fix isprime / totient function primes randsample std / cov strrep
abcdefgh k mnopqrstuvw	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input input(,'s') lower / floor ones sismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap delete from stack	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique(,'rows')	tic padarray / unpad array strsplit strsplit strcata blkdiag factor gamma / gammainc / betainc hankel imread imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod n-th prime / next prime randi cumsum	toc base2base strjoin gcd exp gammaln / betaln hypergeom conj log2 com fix isprime / totient function primes randsample std / cov strrep strjust deblank
abcdefghi k mnopgrstuvwxy	dowhile any bubble char (also for cell array) diff char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input,, s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap delete from stack duplicate element	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique(,'rows')	tic padarray / unpad array strsplit strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cunth prime / next prime randi cumsum	toc base2base strjoin gcd exp gammaln / betain hypergeom conj log2 icm fix isprime / totient function primes randsample std / cov strrep stripst
abcdefghijkImnopqrstuvwxyz	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap delete from stack duplicate element nnz	while any(, 1) cat diag / spdiags strfind ndgrid {} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique('rows')	tic padarray / unpad array strsplit strsplit strsdat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod n-th prime / next prime randi cumsum eig / svd / strtrim	strjoin gcd exp gammaln / betain hypergeom conj log2 lcm fix isprime / totient function primes randsample std / cov strrep strjust deblank
abcdefghijkImnopqrstuvwxyz{	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap delete from stack duplicate element nnz Not used. Cell array delimiter	while any(, 1) cat diag / spdiags strfind ndgrid {,} urlread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique(,'rows')	tic padarray / unpad array strsplit strcat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod n-th prime / next prime randl cumsum eig / svd / strtrim hypot mat2cell	toc base2base strjoin gcd exp gammaln / betaIn hypergeom conj log2 lcm fix isprime / totient function primes randsample stid / cov strrep strjust deblank size mat2cell(x,ones(size(x,1),1),size(x,2))
abcdefgh; k mnopqrstuvwxyz{-	dowhile any bubble char (also for cell array) diff reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap delete from stack duplicate element nnz	while any(, 1) cat diag / spdiags strfind ndgrid {,} urfread real upper / ceil ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique(,'rows') cic eye eye nonzeros / remove whitespace num2cell	tic padarray / unpad array strsplit strsplit strsdat blkdiag factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod n-th prime / next prime randi cumsum eig / svd / strtrim	strjoin gcd exp gammaln / betain hypergeom conj log2 lcm fix isprime / totient function primes randsample std / cov strrep strjust deblank