_		X	Y	Z
.	separator			£.41
!	.' (transpose) / permute for	rot90 repmat	system repelem (run-length decoding)	full blanks
	specify outputs	display stack (debug)	sound, soundsc, audiowrite	fopen, fwrite, fclose
	specify inputs		char(vpa())	fopen, fread, fclose
	comment	class	cast	typecast
	alternative default input/output spec Not used. String delimiter	intersect	and run-length encoding	bitand now / clock
(() assignment indexing / split	{ } assignment indexing	() assignment ind. with final : / split	() assignment ind. with initial : / split
) *	() reference indexing	{} reference indexing	() reference ind. with final:	() reference ind. with initial :
*	*	kron	matrix product	Cartesian product
+	+	cos	conv2 sin	conv2(, 'same') tan
_	-	setdiff	deconv	tan
	break	continue	pause	bitget
<u>/</u>	J	angle	matrix /	unwrap
	Not used Not used	predefined literals predefined literals	predefined literals predefined literals	
	Not used	predefined literals	predefined literals	
3	Not used	predefined literals	predefined literals	
	Not used	predefined literals	predefined literals	
	Not used Not used	predefined literals predefined literals	predefined literals predefined literals	
	Not used	predefined literals	predefined interais	
8	Not used	predefined literals		
	Not used	predefined literals		hitaat
: [colon (range)	linearize array	comma-separated list asin	bitset atan2
, <	<	acos min	cummin	atanz
= [==	isequal	strcmp	
>	>	max	cummax	
?	nush "for" value / "while" indov	push "for" index	why	sparse randperm
	push "for" value / "while" index all	all(, 1)	perms dec2base. Larger base, any symbols	randperm base2dec. Larger base, any symbols
В	logical(dec2bin()-'0')	bin2dec(char(+'0'))	dec2bin	bin2dec
c [histcounts	im2col	im2col(, 'distinct')
	disp(num2str(,)) / mat2str	disp(num2str())	sprintf / fprintf	disp
	multiply by 2 Not used. False (literal)	replace elements in array	exponents of prime factorization	
	Paste from clipboard G (user-input)	plot	imwrite / imagesc / image / imshow	appearance of graphics / format
Н	Paste from clipboard H	Copy to clipboard H		
	Paste from clipboard I	Copy to clipboard I	col2im	image processing functions
	Paste from clipboard J Paste from clipboard K	Copy to clipboard J Copy to clipboard K		
	Paste from clipboard L (multi-level)	Copy to clipboard L (multi-level)	gallery	
	Paste from clipboard M (function-input)	mode		
	stack size	nchoosek (array)	NaN	isnan
	zeros flip	datestr flipud	datenum pi	datevec pdist2
	increment by 1	accumarray	rat	polyval / roots / polyfit
R	triu	triu(,1) / build matrix	tril	tril(,-1) / build matrix
	sort	sortrows	circshift	sign
	Not used. True (literal) str2num / string to array / square	str2double	toeplitz	
	num2str	St 2doddie		
	2 raised to input			
	Not used	regexp	regexprep	ininf
	Not used Not used		inf	isinf
	Not used. Array delimiter	ind2sub		
١	mod	mod(1)+1	matrix \	divisors
,	end (loops or conditional branches)	sub2ind	matrix ^	Cartesian nower
- 1	unary minus	sqrt	mauix	Cartesian power
	dowhile	while	tic	toc
а	any	any(, 1)	padarray / unpad array	base2base
	bubble char (also for cell array)	cat	strsplit strcat	strjoin
	onar (also for odli array)	out	otrodt	
e	diff	diag / spdiags	blkdiag	gcd
	reshape / squeeze	diag / spdiags	-	gcd exp
-	reshape / squeeze find	strfind	factor	ехр
g	reshape / squeeze find logical / cell2mat	strfind ndgrid	factor gamma / gammainc / betainc	exp gammaln / betaln
g h	reshape / squeeze find logical / cell2mat horzcat	strfind ndgrid {,}	factor gamma / gammainc / betainc hankel	ехр
g h i	reshape / squeeze find logical / cell2mat horzcat input input(,'s')	strfind ndgrid {,} urlread real	factor gamma / gammainc / betainc hankel imread imag	exp gammaln / betaln
g h i j	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor	strfind ndgrid {} urlread real upper / ceil	factor gamma / gammainc / betainc hankel imread imag closest values	gammain / betain hypergeom conj / real and imag
g h i j k	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range)	factor gamma / gammainc / betainc hankel imread imread image closest values log. With two inputs, specifies base	gammaln / betaln hypergeom conj / real and imag
g h i j k l m	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor	strfind ndgrid {} urlread real upper / ceil	factor gamma / gammainc / betainc hankel imread imag closest values	gammain / betain hypergeom conj / real and imag
g h i j k l m n o	reshape / squeeze find logical / cell2mat horzcat input input input input lower / floor ones ismember numel / size double / cell array to numeric / parity	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64	factor gamma / gammainc / betainc hankel imread imag closest values log. With two inputs, specifies base mean poly / interp1 round / change case	exp gammain / betain hypergeom conj / real and imag log2 lcm fix
ghijklmnop	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,)	factor gamma / gammainc / betainc hankel imread imag losest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod	gammaln / betaln hypergeom conj / real and imag log2 lcm fix isprime / totient function
gh i j k l m n o p q	reshape / squeeze find logical / cell2mat horzcat input input(,s') lower / floor ones ismember numel / size document / sparity prod decrement by 1	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile	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	exp gammaln / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes
ghi jkl mnopqr	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember numel / size double / cell array to numeric / parity prod	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn	factor gamma / gammainc / betainc hankel imread imag losest values log. With two inputs, specifies base mean poly / interp1 round / change case cumprod	gammaln / betaln hypergeom conj / real and imag log2 lcm fix isprime / totient function
g hijklmnopqrst	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	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,)	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	exp gammaln / betaln hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep
ghijklmnopqrstu	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	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn	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	exp gammain / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep stripus
ghi jkl mnopqrst uv	reshape / squeeze find logical / cell2mat horzcat input input input input input ones simember numel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unrique vertcat	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,)	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	exp gammaln / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep
ghi jkl mnopqrst uvw	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	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,)	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	exp gammain / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep stripus
ghiijklmnopqrstuvwxy	reshape / squeeze find logical / cell2mat horzcat input input(,'s') lower / floor ones ismember nemel / size double / cell array to numeric / parity prod decrement by 1 rand sum duplicate elements unique vertcat swap	strfind ndgrid {} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique(,'rows')	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	exp gammain / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep stripus
ghi j kl m n o p q r s t u v w x y z	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 duplicate element nnz	strfind ndgrid {,} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique('rows')	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 hypot	exp gammaln / betaln hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep strjust deblank / symmetric range
ghijklmnopqrstuvwxyz{	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	strfind ndgrid {,} urlread real upper / ceil clamp (limit to a range) ismember(, 'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique('rows')	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	exp gammain / betain hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep strjust deblank / symmetric range size mat2cell(x,ones(size(x,1),1),size(x,2))
ghijklmnopqrstuvwxyz{	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 duplicate element nnz	strfind ndgrid {,} urlread real upper / ceil clamp (limit to a range) ismember(,'rows') nchoosek (numbers) / multinomial c. int64 prod(, 1,) quantile randn sum(, 1,) unique('rows')	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 hypot	exp gammaln / betaln hypergeom conj / real and imag log2 lcm fix isprime / totient function primes randsample std / cov strrep strjust deblank / symmetric range