

CJam 0.6.5 cheat sheet

Integer Arithmetic	Float Arithmetic	Arrays⁴	Conversions
+ add - subtract ¹		[] begin/end ~ dump	i integer d double
* multiply / divide		a wrap in array	s string c char
% modulo # power		= get, find t set	` string representation
(-1) +1		< take > drop	b base conversion
m! factorial md divmod		+ concat * repeat/join	
mf factors (mF → exponents)		/ split % clean split	
mp is prime? mQ integer √		, range, len \$ sort (by)	
z absolute value		& intersect union	
ex multiply by 10 ^x (literal x)		^ symmetric difference	
		- remove e_ flatten	
		# find index z transpose	
		(uncons lt) uncons rt	
		m< rotate lt m> rotate rt	
		e! permutations (no reps)	
		m! permutations (reps)	
		e* repeat all e= count	
		e[pad left e] pad right	
		e\ swap two indices	
		e` run-length encode	
		e~ run-length decode	
		ee enumerate: [a _i] → [(i, a _i)]	
		ew overlapping slices	
		m* cartesian product/power	
Bitwise Arithmetic	Stack operations	Input/Output	Miscellaneous
~ negate bit-or	;	a→	mr random number, shuffle
& bit-and ^ bit-xor	\ swap	ab→ba	mR random choice
m< left shift m> right shift	_ duplicate	a→aa	et time ⁵ es unix time
	@ rotate	abc→bca	ea command line args
	\$ copy nth ...S ₁ S ₀ n→S _n		ed debug (stack contents)
			j memoize/recurse
			fg map g with param.
Logic	Control Flow		
< less than > greater	% map / each		
e< min ² e> max	& do-if do-unless		
= equals ! logical not	g do-while h do-while ³		
e& and e or	? ternary if ~ eval		
	* repeat block; reduce		
	,		
	filter w while		
	fV for loop in variable V		

1 Immediately before integer literals, you can use `m` instead of `-`, to avoid having to insert whitespace to parse e.g. `AB-3+` correctly.

2 The operators `e<` and `e>` pop two arguments to compare, not a list.

3 `h` leaves the condition on the stack at the end of a loop; `g` pops it.

Shortcuts: `.g` – `zipWith` (g a binary op or block). `:V` – assignment. `:g` – short map/fold. **Vars:**

A	B	...	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
10	11	...	20	[]	[]	\n	[]	π	[]	[]	spc	0	0	-1	1	2	3	

4 Array functions that don't have some other meaning when applied to ints will try to convert an integer argument `n` to an array `[0, 1... n-1]`.

5 [y m d h m s ms weekday timezone]