```
(defun chars (x) (if (symbolp x) (symbol-name x) x))
(defun char0 (x) (char (chars x) 0))
(defun charn (x) (let ((y (chars x))) (char y (1- (length y)))))
    (defun trim (x) (string-trim '(#\Space #\Tab #\Newline) x))
    (defun splits (string &key (sep #\,) (filter #'identity))
(loop for start = 0 then (l+finish)
   for finish = (position sep string :start start)
   collecting (funcall filter (trim (subseq string start finish)))
   until (null finish)))
     (defun defun cells (string) (splits string :sep #\Newline))
(defun cells (string) (splits string :filter #'thing))
    defun with-lines (file fun)
  (with-open-file (s file)
  (loop (funcall fun (or (read-line s nil) (return)))))
;;; maths
    ;;; maths
(defvar *seed* 10013)
(defvan randi (koptional (n 1)) (floor (* n (/ (randf le9) le9))))
(defun randi (koptional (n 1.0))
(setf *seed* (mod (* 16807.0d0 *seed*) 2147483647.0d0))
(* n (- 1.0d0 (/ *seed* 2147483647.0d0)))))

/// settings
(defun cli (lst)
(destructuring-bind (key flag help default) lst
(destructuring-bind (key flag help default) lst
(let* ((args %*clisp ext:*args* %*sbcl sb-ext:*posix-argv*)
(i (it (or (member flag args :test *equal)))

// cons key (cond (member key args :test *equal)))

// cons key (cond ((member default) in)

// cons key (cond ((member default) in)

// cons key (cond default nil))

// ((equal default nil))

// (thing (second it))))))))

   (defun settings (header options)
(let ((tmp (mapcar #'cli options)))
(when (cdr (assoc 'help tmp))
(format t "~&~%-[-a-%-]-%OPTIONS-%" (lines header))
(dolist (one options)
(format t " ~a ~a=~a-%" (second one) (third one) (fourth one))))
tmp))
     '(prom (ix disenstructor, (intern (format nil "%MAKE--a" x)))), @body) (defmethod print-object ((self ,x) str) (labels ((fun (y) (format nil ""-(-a)-a" y (slot-value self y)))) (format str "-a" (cons ',x (mapcar #'fun ',public)))))))
```