add ebx, 8 — after each pair sub ebx,

(Automated) Memory Management

(read_line)

```
; just-read.snake
                                                         /* Reads a line of space-separated numbers from the user. Allocates
                                                         a pair-based list containing those numbers, and returns a reference
      (def (our_main _)
                                                         to it, updating the heap pointer appropriately. Pairs are allocated
       (read_line))
                                                         in order with the list.*/
                                                         int* read_line_c(int* heap_start) {
                                                           char* line = NULL;
      $ ./just-read.run
                                                            size_t size = 0;
      10 9 7
                                                            getline(&line, &size, stdin);
      (10,(9,(7,false)))
                                                            char* tok = strtok(line, " ");
                                                           while(tok != NULL) { ... }
     ; simple-read.snake
                                                     A: 10
      (def (our_main _)
       (let (line (read_line))
                                                     B: 9
         (fst (snd line))))
     $ ./<del>just</del>-read.run
10 9 7
                                                     (:7
     ???
                                                     D: Ecros
(10,(4,(7, false)))
snd
fs+ of snd
                                                     E' Falsc
```

6: (10, (40, false))

C: ((10, 90), fulse)

D: Somethy else

```
; min-max.snake
(def (max lst) ...) ; return largest num in list
(def (min lst) ...) ; return smallest num in list
(def (maxmin 1)
  (pair (min 1) (max 1)))
(def (read maxmin)
  (let (line (read line))
   (if (== line false) false delete/free | re (maxmin line)))
        (maxmin line))))
(def_(our_main so_far)
  (let (next (print (read maxmin)))
    (if (== next false)
      so far
      (let (updated (print (pair next so_far)))
        (our_main updated)))))
$ ./min-max.run
10 90 80
(10,90)
        ; first updated print ((10,90), false)
(40,300); second updated print((10,300),(10,40), false)
200 300 40
```

1. We could delete/free like manually at theright place 10 90 80 2. Le coul use false info about program 0 vydated . to know line is 90 Week OK to delete. fulsc 200 300 会 40 falsc याठ 300 X

The man

```
; min-max.snake
(def (max lst) ...) ; return largest num in list
(def (min lst) ...) ; return smallest num in list
(def (maxmin 1)
 (pair (min 1) (max 1)))
(def (read maxmin)
 (let (line (read_line))
   (if (== line false) false
        (maxmin line))))
(def (our_main so_far)
 (let (next (print (read_maxmin)))
   (if (== next false)
      so far
      (let (updated (print (pair next so_far)))
       (our_main updated)))))
$ ./min-max.run
10 90 80
(10,90)
      ; first updated print
???
200 300 40
(40,300)
        ; second updated print
???
```

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