

;;Bubble Sort in Lisp

```
(defun bubble-sort (lst)
  "Ordena uma lista de números usando o algoritmo Bubble Sort."
  (let ((swapped t))
    (loop while swapped do
      (setf swapped nil)
      (setf lst (loop for (a b . rest) on lst
        when (and b (> a b))
          do (setf swapped t)
              (return (cons b (cons a rest)))
        collect a into new-list
        finally (return (append new-list (list b))))))
    lst))
```

;; Exemplo de uso:

```
(print (bubble-sort '(5 3 8 4 2)))
```

;; Saída esperada: (2 3 4 5 8)