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--and function answers are all boolean elements of a boolean list equal True?
and = \ bs -> null bs | | head bs && and (tail bs)
--or function answers does any component of the boolean list bs equal True?
or = \bs -> not (null bs) && ( head bs | | or (tail bs))
--issorted function answers is the list sorted in numerical order?
issorted = \ns -> (null ns || null (tail ns)) || head ns <= head (tail ns)
            && issorted (tail ns)
--range function gives a list of the numbers from number 'lo' up
--to number 'hi', inclusive
range = lo -> hi -> if (lo > hi) then
              []
           else
              lo:range(lo+1) hi
--copies function gives a list of 'n' copies of item 'x'
copies = \n -> \x ->  if n == 0 then
              []
            else
              x: copies (n-1) x
```