

Imagine that we have lists containing a combination of numbers and the string `"new-day"`. The numbers represent temperature readings as taken by a sensor or weather monitoring device. The `"new-day"` string is sent at the start of each new calendar day.

Design a program `max-temps` that takes one of these lists and returns a list of numbers representing the max temperature for each day. If the input list is empty, return `empty`.

Assume that there will be no other strings besides `"new-day"` and that the following helper function is already defined:

- `num-max`: Takes two numbers and returns the larger of them

Example:

`(max-temps (list 40 42 "new-day" 50 "new-day" 52 56))` would return `(list 42 50 56)`.

A special case to consider are consecutive instances of `"new-day"`. Consecutive instances of `"new-day"` indicate that no readings were collected for the previous calendar day. For these cases, simply put nothing in the list. For example:

`(max-temps (list 40 42 "new-day" "new-day" 50 "new-day" 52 56))` would still return `(list 42 50 56)`.