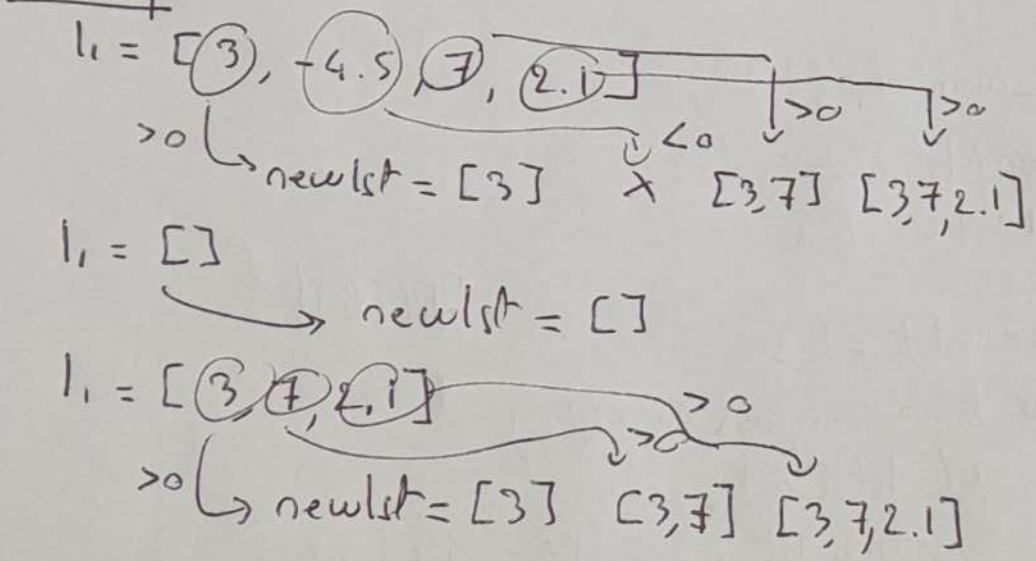
Given a list of numbers, write a function that only returns a list of positive numbers.

Problem statement

Input: a list of numbers
Output: a list of positive numbers from original list.
Process: checks in a list if a number is >0. and add it in a newlist (if >0).

Cases



Design If a list is empty, should return an empty list.
Otherwise, check if the first element is >0.
If yes, add it to a new list.
If not, do nothing.
Then, move to the next element and repeat the previous process until we reach the end of the list. Finally, return the new list.

Implementation

```
def pos_numbers(lst):
    if len(lst) == 0:
        Return []
    else:
        newlst = []
        for k in range(len(lst)):
            if lst[k] > 0:
                newlst = newlst + lst[k]
        Return newlst
```

+ [lst[k]]

newlst + lst[k]

list + int

Test

It does not work because newlst is a list and lst[k] is an integer ⟹ concatenation not possible

How to fix it? → Go back to Implementation and replace lst[k] by [lst[k]].

Then, all the tests pass (if the input is an empty list or a list of numbers.