Quiz #7: More Recursion

We say that a nested list is **semi-homogeneous** if it is a single integer, or it is a list satisfying two conditions:

- Its sub-nested-lists are either *all* integers or *all* lists.
- Its sub-nested-lists are all semi-homogeneous.

An empty list is considered to be semi-homogeneous.

Your goal here is to write a recursive function that determines where a nested list is semi-homogeneous. We’ve left plenty of space for you to write doctests—this is an excellent first step to make sure you understand this definition!

```python
def semi_homogeneous(obj: Union[int, List]) -> bool:
    """Return whether the given nested list is semi-homogeneous.

    Write some doctests in the space below!
    ""
```

*If you need more space, continue on the back of this page.*