Write recursive contains method

first...

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Read over the _init_ method for class Tree:

class Tree:
    ''' Represent a Bare-bones Tree ADT'''

def __init__(self, value=None, children=None):
    ''' (Tree, object, list) -> NoneType

    Create Tree(self) with content value and 0 or more children.
    '''
    self.value = value
    # copy children if not None
    self.children = children.copy() if children else []
```

next...

Now, read the header and docstring for the function contains, and then answer the questions that follow it.

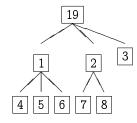
```
def contains(t, v):
    ''' (Tree, v) -> bool

    Return whether Tree t contains v.

>>> t = Tree(17)
    >>> contains(t, 17)
    True
    >>> t = descendents_from_list(Tree(19), [1, 2, 3, 4, 5, 6, 7, 8], 3)
    >>> contains(t, 5)
    True
    >>> contains(t, 18)
    False
    '''
```

then...

- 1. One of the examples in contains docstring is simple enough not to require recursion. Write an if... expression that checks for this case, and then returns the correct thing. Include an else... for when the tree is less easy to deal with.
- 2. Below is a picture of a larger Tree t, with several levels. Consider a function call contains(t, 18) that passes your tree to the function. Are there smaller trees for which it would be helpful to know whether they contain 18? Which smaller trees are they? Write an example of a function call contains(t, 18) on one of these smaller trees. You can access these trees through the variable t.



3.	3. Suppose the call in the previous step gives you the correct answer according to the docstring: it return not the smaller tree contains 18. How will you combine the solutions for all the smaller instances to get Tree t itself? Write code to return the correct thing. Put this code in the else expression that you creat step.	a solution for