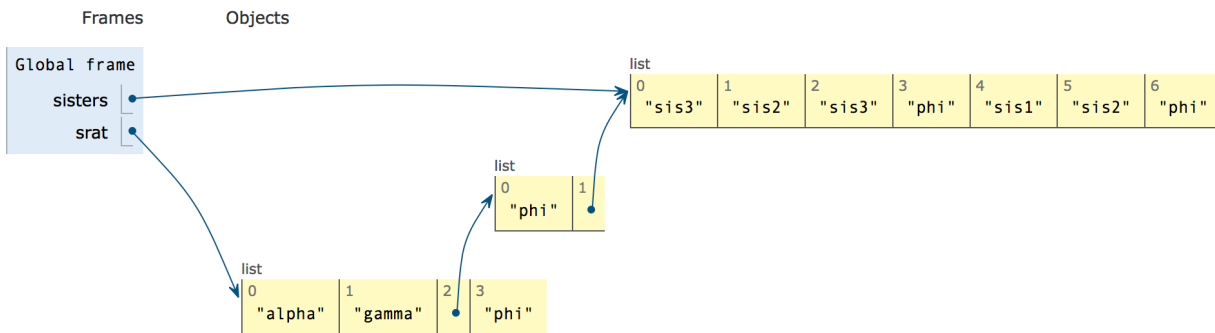
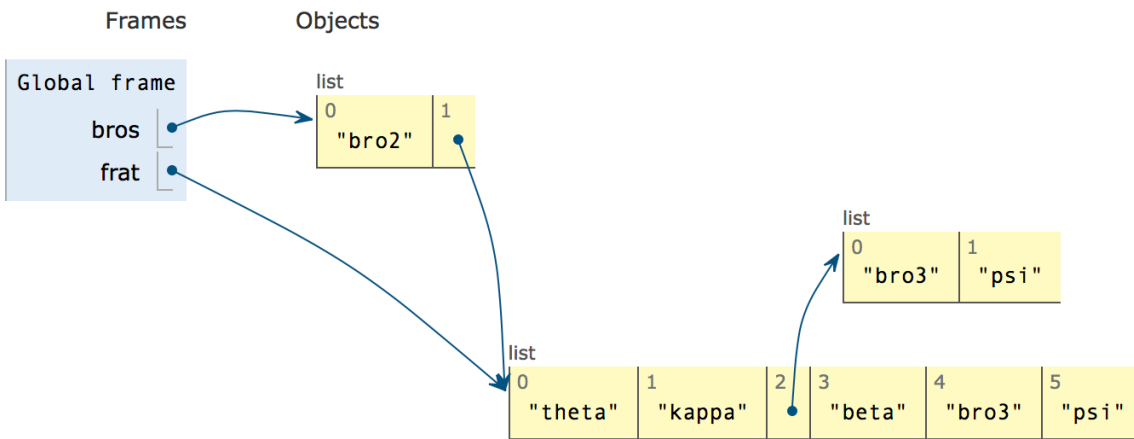


Worksheet 4: Solutions



```
>>> [2*x for x in [2, 4, 6, 8] if x%2 != 0]
[]
>>> ["enigma" for b in ["i", "love", "cs"] if b == "love"]
["engima"]
>>> [fun%work for fun, work in [[1, 2], [3, 4], [10, 2]]]
[1, 3, 0]
```

```
def trim(t):
    if (is_leaf(t)):
        return tree(0)
    else:
        return tree(label(t), [trim(b) for b in branches(t)])
```

(In this case, we do need a base case! What would happen if we didn't have it?)

```
if label(t) % 2 != 0:
    return False
else:
    for b in branches(t):
        if not twos(b):
            return False
    return True
```