

99 questions/Solutions/61A

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Collect the leaves of a binary tree in a list

A leaf is a node with no successors. Write a predicate `leaves/2` to collect them in a list.

```
leaves :: Tree a -> [a]
leaves Empty = []
leaves (Branch a Empty Empty) = [a]
leaves (Branch a left right) = leaves left ++ leaves right
```

Alternative solution only using cons:

```
leaves t = leaves' t []
  where leaves' Empty xs = xs
        leaves' (Branch x Empty Empty) xs = x:xs
        leaves' (Branch _ l r) xs = leaves' l $ leaves' r xs
```

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