- Extend the binary search tree (from the previous practical)
  - to support indexing

```
• i.e.,
tree = BST()
...
for i in range(len(tree)):
```

print(tree[i])

- to make it callable
  - returns the tree's root element
- to be usable in conditions
  - empty tree ~ false, otherwise true



 Create a function decorator that masks all errors in a function

@ignore\_errors
def divide(a, b):
 return a / b

```
print(divide(10, 2)) # 5
print(divide(10, 0)) # None
```



 Extend the previous decorator such that it allows one to specify the return value if an exception is thrown

```
@ignore_errors(return=0)
def divide(a, b):
    return a / b
```



 Create a class decorator that wraps all "public" methods (i.e. those that don't start with \_) and prints "Method entry <NAME>", "Method exit <NAME>" upon entry/exit in the method



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