3/6/23, 12:09 AM run

```
In [ ]: %load_ext memory_profiler
In [ ]: import gc
        from weakref import WeakValueDictionary
        from demo import WithoutGc, WithTraverse, WithTraverseAndClear
        class Foo:
            def __init__(self, wrapper):
                self.wrapped = wrapper(self)
        def run(wrapper) -> int:
            cache = WeakValueDictionary()
            for _ in range(100_000):
                f = Foo(wrapper)
                cache[id(f)] = f
                del f
            gc.collect(0)
            gc.collect(1)
            gc.collect(2)
            return len(cache)
In [ ]: print(f"WithoutGc: {run(WithoutGc)}")
        print(f"WithTraverse: {run(WithTraverse)}")
        print(f"WithTraverseAndClear: {run(WithTraverseAndClear)}")
        WithoutGc: 100000
        WithTraverse: 100000
        WithTraverseAndClear: 100000
In [ ]: %memit run(WithoutGc)
        %memit run(WithTraverse)
        %memit run(WithTraverseAndClear)
        peak memory: 348.41 MiB, increment: 46.00 MiB
        peak memory: 385.72 MiB, increment: 37.31 MiB
        peak memory: 422.66 MiB, increment: 36.94 MiB
```