Please use this Google doc to code during your interview. To free your hands for coding, we recommend that you use a headset or a phone with speaker option.

class snapshot\_dict:

 def get(k) -> val

 def put(k, v) -> None

 def new\_snapshot() -> snapshot\_id

 def get\_from\_snapshot(snapshot\_id, k) -> v (when new\_snapshot was called)

d = dict()

d.put('a', 1)

snap\_id = d.new\_snapshot()

d.put('a', 2)

d.get\_from\_snapshot(snap\_id, 'a') -> 1

import copy

class snapshot\_dict:

   def \_\_init\_\_(self):

       self.original\_dict = {}

       self.snaps\_dict = {}

       self.curr\_snapshot\_id = 1

   def get(self, key):

       if key in self.original\_dict:

return self.original\_dict[key]

 else:

throw KeyError

   def put(self, key, val):

       self.original\_dict[key] = val

   def new\_snapshot(self):

       id = self.curr\_snapshot\_id

 curr\_snap = copy.deepcopy(self.original\_dict)

       self.snaps\_dict[id] = curr\_snap

 self.curr\_snapshot\_id += 1

       return id

   def get\_from\_snapshot(self, snapshot\_id, k):

       if snapshot\_id in self.snaps\_dict:

curr\_snapshot = self.snaps\_dict[snapshot\_id ]

if k in curr\_snapshot:

               return curr\_snapshot[k]

           else:

               return KeyError

 else:

            return KeyError