

```
decorator
                                                                                                             Listquere heredy
                             from abc import ABC, abstractmethod
                            class AbstractEvent(ABC):
                                                                                                               2 Order Set
                                 @abstractmethod > métods abstractos
                                                                                   class ListQueue(OrderedSet):
                                                                                      def __init__(self):
                                 def execute(simulator): #Abstract Simulator
                                                                                          self.elements = list()
                                     pass
                                                                                   def insert(self, x):
                                                                                          i = 0
                                                                                          while i < len(self.elements) and self.elements[i] < x:</pre>
                             class OrderedSet(ABC):
    Tener Si o Si
                                                                                             i += 1
                                 @abstractmethod
                                                   Sobre escrita
                                                                                          self.elements.insert(i, x)
                                 def insert(x): 
                                                                                      def removeFirst(self):
                                      pass
                                                                                          if len(self.elements) == 0:
    exewte
                                 @abstractmethod
                                                                                              return None
                                 def removeFirst():
                                                                                          x = self.elements.pop(0)
                                                                                          return x
                                     pass
                                                                                      def remove(self, x):
                                 @abstractmethod
                                                                                          for i in range(len(self.elements)):
                                 def size(): ~
                                                                                              if self.elements[i] == x:
                                      pass
                                                                                                 return self.elements.pop(i)
                                 @abstractmethod
                                                                                          return None
herencia
a Event
                                 def remove(x):
                                                                                      def size(self):
                                                                                          return len(self.elements)
                                      pass
                                  Boep hereda a Fivent
         class Event(AbstractSimulator, ABC):
                                                  class Beep(Event):
             def __init__(self):
                                                     def __init__(self, time):
                self.time = None
                                                        super().__init__()
            def __lt__(self, y):
                                                        self.time = time
                if isinstance(y, Event):
                                                     def execute(self, simulator):
                                                        print('this is time ', simulator.time)
                    return self.time < y.time
                else:
                    raise ValueError('This is no an event')
            def __eq__(self, other):
                return self.__dict__ == other.__dict__
```