```
(defn simplify [g & ks] (map #(if (st/vartest? %) ? :v)
(defmulti get-from-index simplify)
(defmethod get-from-index [
  [\{idx : eav\} e a v]
  (for [e (keys idx), a (keys (idx e)), v ((idx e) a)]
    [e a v]))
(defmethod get-from-index [:v
  [{idx :vea} e a v]
  (map vector (get-in idx [v e])))
(defmethod get-from-index [ ? :v ?]
  [{idx :ave} e a v]
  (let [edx (idx a)] (for [v (keys edx), e (edx v)]
    [e v])))
(defmethod get-from-index [:v :v :v]
  [\{idx : eav\} e a v]
  (if (get-in idx [e a v]
```

```
def indexAdd(idx, a, b, c):
  adx = idx.get(a)
  if None == adx:
   adx = \{\}
   idx[a] = adx
  bdx = adx.get(b)
  if None == bdx:
    adx[b] = \{c\}
 else:
   bdx.add(c)
  return idx
class GraphIndexed:
  def init (self):
    self.eav = {}
   self.ave = {}
   self.vea = {}
 def add(self, e, a, v):
    self.eav = indexAdd(self.eav, e, a, v)
    self.ave = indexAdd(self.ave, a, v, e)
    self.vea = indexAdd(self.vea, v, e, a)
    return self
  def get(self, e, a, v):
```