```
function MEMBER?(element, category) returns True or False

  for each c in MEMBERSHIPS[element] do
      if SUBSET?(c, category) then return True
  return False
```

```
function SUBSET?(sub, super) returns True or False

  if sub = super then return True
  for each c in SUPERS[sub] do
      if SUBSET?(c, super) then return True
  return False
```

```
function RELATED-TO?(source, relation, destination) returns True or False

  if relation  appears in RELS-OUT(source) then
      return MEMBER([relation, destination], RELS-OUT(node))
  else for each c in MEMBERSHIPS(source) do
      if ALL-RELATED-TO?(c, relation, destination) then return True
  end
  return False
```

```
function ALL-RELATED-TO?(source, relation, destination) returns True or False

  if relation appears in ALL-RELS-OUT(source) then
      return MEMBER([relation, destination], ALL-RELS-OUT(node))
  else for each c in SUPERS(category) do
      if ALL-RELATED-TO?(c, relation, destination) then return True
  end
  return False
```