Knowledge about the graph and the meaning of "connected" represented explicitly.

Knowledge base:

Factual knowledge:

directly-connected(a, b)

directly-connected(a, c)

directly-connected(b, d)

directly-connected(b, e)

directly-connected(c, e)

Structural knowledge:

connected(x, y) **if** directly-connected(x, y)

connected(x, y) **if** directly-connected(x, z) **and** connected(z, y)

Query:

for example connected(a, e)?

is answered by a general problem solver.

Possible intermediate solution

- Represent knowledge about the graph explicitly.
- Implicitly encode the meaning of "connected" in the program.