Encoding the knowledge about the graph and the meaning of "connected" in a program.

```
procedure connected(x, y)
    if x = a then
        if y = b or y = c then
            return true
        else
            return ( connected(b, y) or connected(c, y) )
    else
        if x = b then
            if y = d or y = e then
                return true
            else
                return false
        else
            if x = c then
                if y = e then
                    return true
                else
                    return false
            else
                return false
```