## Desktop operations: cut, paste, hide, show

Extend the Desktop model. Now each desktop may have some icons that are *hidden*, the others are *showing*.

**Cut operation**: removes an icon from the set of showing icons. No change to the set of hidden icons. (Cannot cut a hidden icon.)

**Paste operation**: adds a new icon to the showing icons. No change to the set of hidden icons. (Cannot paste to the set of hidden icons.)

**Hide operation**: an icon that is showing becomes hidden.

**Show operation**: an icon that is hidden becomes showing.

Question: What is the relationship (constraint) between a desktop’s icons and its hidden icons and showing icons? You should express that relationship in your model.

Run your model for 5 desktops.

Here is a sample instance:

