

Question 1:

Write the BNF specifications for the UNIX commands cp, mv and ln
Write down the regular expression notation for these commands.

Question 2:

Imagine a graphics system which has two functions: a line-drawing function and a “write text” function. These two functions are specified by the “line” and “text” menu options. The line-drawing function allows the user to draw a polyline, that is a sequence of line arcs between points. The user selects the points by clicking the mouse button in the drawing area and double clicks to indicate the last point of the polyline.

In the text mode, the user may select three options: left-justified, right-justified and centered. Text is entered by clicking at a location in the drawing surface and then typing.

Use BNF to describe the above dialog grammar.

Discussion Question:

Taking the digital watch from last week’s tutorial, what are the dangerous states and what is used to guard them?

How do digital watches in general guard these states?

How about reversibility? How reversible are the “set time” and “set alarm” actions?