

→ Text: How to think like a CS ist

Intro to CS and Programming 2005 2016

Declarative Knowledge

ex.: $y = \sqrt{x}$ iff $y^2 = x, y > 0$

Imperative knowledge

- ex:
- 1) Start with a guess, g
 - 2) If $g * g$ is close enough to x , then g is a good approximation of the square root of x
 - 3) Otherwise, create a new guess by averaging g and x/g .
That is: $g_{\text{new}} = \frac{g_{\text{old}} + x/g_{\text{old}}}{2}$
 - 4) Using this new guess, go back to step 2

Stored Program Computers

