

Square Root Algorithm

Trying to find the square root
of x

1. Start with a guess g
2. if $g * g$ is close enough to x
then STOP
3. else
 # a new value for guess
 $g = (g + x / g) / 2$

REPEAT (go back to 2)

one way of implementing close enough is

$\text{round}(g * g * 100) = x * 100$