Problem: Using Explicit Definition

NB. The square function (explicit definition)

\[
\text{square} =: \text{monad define script} \\
\quad y. \cdot^2 \quad \\
\]

NB. The sum_of_squares function (explicit definition)

\[
\text{sum_of_squares} =: \text{dyad define script} \\
\quad (\text{square} \ x.) + \text{square} \ y. \quad \\
\]

NB. Some examples

\[
\text{square} \ 3 \\
3 \ \text{sum_of_squares} \ 4
\]

Problem: Using Tacit Definition

NB. Tacit Definition

NB. Dyad

\[
\text{sum_of_squares} =: + \ & (\cdot^2) \\
\]

NB. Also, works as the generalization (below) and as
NB. a dyad (why?).

\[
\text{sum_of_squares} =: +/ \ & (\cdot^2) \\
\]

NB. Monad
NB. Generalization of sum_of_squares

sum_sq =: +/ @ (^&2)

NB. Also

+/ & (^&2)

NB. and

+/ @: *: