Given f as a function, n as number of roots, g a vector of guesses, h as the step size

For all roots jj = 1:n

Begin indexing at 1 (ii=1)

The first a value is the guess

While sign of f(a(ii)) = sign of f(a(ii) + h)

a(ii+1) = a(ii) + h

increase index by one

end while loop

create a matrix in which the jj value is the row with the final a value in the right column and the second to last value is in the left column

end