\times length-N raw vector representing $b^{N-1} \times (1) + b^{N-2} \times (2) + \cdots + b \times (N-1) + \times (N)$ C Mattab indexing.

Finish the ode to add arb. lage x ky: A)

function z = add (x, y, b) base.

n = max (numel(x), numel (y)) + 1

= [3+10s(n-numel(x), 1) x]

y = [3eros (n - numel (y), 1) y]

z = x + y

pad input to length in.

elementain old, now do the corrying to frish:

B) Write carry contine for case of subtraction x-y for x > y:

() Devise a floating point data format to extend the above to real numbers.

Banett 4/30/13

formati: x tenjth-N raw vector representing 5" x (1) + 6 × (1) + ... + 6 × (1) + x (1) ~ SOLUTIONS en - Emottab indexing.

Finish flu ode to add arb. lage x & y: A)

function z = add (x, y, b) base.

n = max (numel(x), namel (y)) or 1

x = [3eros(n-numel(1), 1) x]

y = [3cros (n - numel (y), 1) y]

z = x + y

eleventwise add, now do the conging to frish:

pad input to length in.

for i= n:-1:2

c = floor (z(i)/b)

z(i) = z(i) - b*c

Z(i-1) = Z(i-1) + C

see code bigint odd.m online

B) Write carry routine for case of subtraction x-y for x > y: for i= n:-1:2

if z(i) < 0

z(i) = z(i) + b

end z(i-1) = z(i-1) - 1

() Devise a Storting point data format to extend the above to real numbers.

Include exponent $e \in \mathbb{Z}$ st. rep is $b^e(b^{n-1}(1) + \cdots + b_{x}(N-1) - x(N))$