**Data** D = decimal number

**Data** Rad = Radix

**Result:** Radix number R, where R = rn, rn-1 … r1, r0.

MSB\_Index = roundup(logRad(D+1))-1; // Calculate the most significant index

di = D, q = 0, I = MSB\_index, ri = 0 // Initialize variables

**for** (i > 0) **do**

q = di / Radi q ∈ {0,1,2 …. Rad-2, Rad-1}. // Get the quotient

**If** (q > 9) **then**  // Check for letter representation

ri = qi+55; // ASCII letters start at 65

**else**

ri = qi ;

**end**

di-1 = di % Radi ; // Calculate the value of di-1

**end**