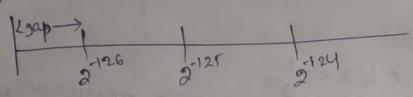
page-4 2) When the content of the exponent 0 & significant (m) is \$0 then the sub normal number is (-1) × 0. m × 2-126 normalized number subnormal 2-149 20 Smallest 2-126 Congest 3.4 × 10 0.99999988x 2-126 = smallest normalized number >>> So there are fotal [0.0, 2126] that means 223 numbers with in the range. 3 => The smallest difference between 2 normalized number is 2-149 which is equal to difference between any two consentive subnormal numbers > or Meanwhile the largest difference blw a consecutive numbers is 2'04 \_ normalized -

> Subnormals extend range of magnitudes representable but have less precission than normalised numbers.

of for a 32 bit precission type the number line distinguishes between normal t subnormal values in the figure below

") without subnormal



ii) with subnormal