Functions Pointers Arrays Strings * Note: If there is only one non-repeating elements in the array & all other elements are repeated fwice, used the XOR of all the elements with zero (0) to get the unique element in Big O(n) fine complexity. What if there are two non-repeating elements? Example: int ark[] = \le 1, 2, 3, 4, 2, 1\le ; \to right most set bit Hamming Weight? 11 -> 1011 nog 1's nog set bits -> 191 unt hamming Weight (int n) { 11-)1011-13 3 0 -1 0000 -10 $\begin{array}{c}
1 \text{ od } \overline{1} \\
0 \text{ ool} \\
\hline
0 \text{ ool}
\end{array}$ True -) CH $n = 11 \longrightarrow 1011$ 0001 n 21 1011>>1 = 101 2 00 1 00 1 -> T |0| >> | = |0|16>>1 Given an integer value 'n', write a function to severce the given integer.

int reverse Integer (int n) n = 123D/P= 21 1000 $1/2 \times 4/4 \rightarrow \text{digits} = 4$ $1/2 \cdot 9/6 \text{digits} = 0 \qquad m/10 \qquad \text{math.h.}$ $1/2 \cdot 3/4 \qquad \text{digits} = 0 \qquad m/10 \qquad \text{math.h.}$ $1/2 \cdot 3/4 \qquad m = n/10 \qquad \text{digits} = 4$ $1/2 \cdot 3/4 \qquad \text{digits} = 4$ (int) loglo (num)
deginal Max Regions in a Baker's or Caterer's Partition Problem With N straight Plane S(n)+1 S(n)+1No of Cuts Max Pieces No of Straight Lines Max Regions Two numbers are given: > and you have to alculate their LCM. Euclid's Algorithm of Repetitive Division 45,75° -> , acd = 15 CMXGCD int gcd (int a, int b) $\{$ if (b = 0)return gcd (b, a1.6);