Revere the digits of a 32 - bit agreed integer
1 Integer lémits: minimum: INT_HIN=-231
1. Integer limits: minimum: INT_HIN=-131
maximum: INY-MAX = 231
you must check ever flow before it heppens
you must cluede ever flow before it he spens 2 No 64-but integers allowed, you need to work digit by digit.
Algorithm strategy: L'Estrect dégits: - répectedly taile x 1.0 to get the last déget "use intéger dévinien x l'est to shrinde x. 2. Build reversed number :- suppose your cussent result is ser.
L'Extract digits: repeatedly take x 1. 10 to get the last oliget
use integer devenion x/1/eo to shrink x.
2. Build reversed numbers-suppose your cussent result is ser
After extracting digital you want:
SIN = SON # LO + O
3. Check for overflow before assigning: before doing slow rev x-10+d you must enrue in won't ever flow: If sew >1/NI_MAX 11 10 %
· before doling serve ser + 10+d you must envire it
wan It ever flow: Ffren 3/10/ MAX 1/ 10 %
$\eta_{\mathcal{U}} = \eta_{\mathcal{U}} + \eta_{\mathcal{U}} $
d > 5. it well som
· Likewie for IN MIN with
negative numbers.
Lédge Caser;
· sevessing 0 -> 0
severing 1000-51 (legoling Zens are dropped)
*Nevering - 120->-21
· Leverning values near INT- HAX or INT- HIN - check for ever flow!