Java / Py thon / Kub one of the ty SMART POINTERS) Types Of Pointers

Void Pointers > genere fointer

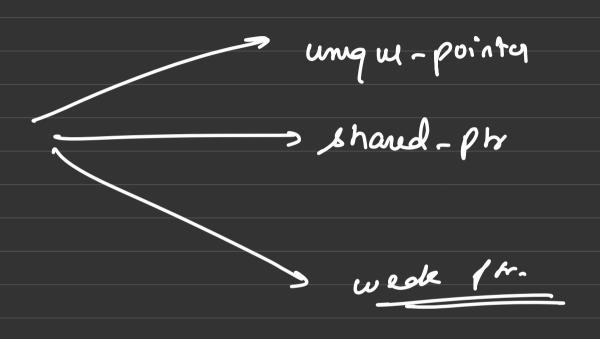
> dereforence is not possible

- 2 Null Boirtess
 - 3) Dangling Pointers

(i) wild pointer

(5) fenchion pointury

-> Smort Pointers -> (No GC) raw pointer La an abstract interfau to actual pointers. but with additional benefit of auto. resource management. and focus memong. use reference pointing for (heop) don't reed to mornally delets the object ney 3 nort Inflorated interrally well closes



unique-pho -> Thus well permit one owner of the pointer. This can contain max one row-pointer that points to a memory.

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Shared-pt - This helps us to have mulliple Ouners of Same menney loc.

weak-ph -> (i) Similar to shared ptr but donot mainlair a réf count:

(1) No ref-cont is added when you point a loc by weak pb. 2) You can't directly point to a memoy by weak-pt. 400 can only point to a memoy by Memony in weak ptr very shared-pri-