29 Apr 25 -> Finding last digit of a power Check previous HD examples

Let a, x EN (i.e., a g x are Northern) Then, if we want to know the last (Here a is colled the base is the exponent power) Steps: let (c) be the last dignt (1) Let b=x%.4 (i-e., c = So,1,2,--96) Last dist of a = last dist of cb (see HPW examples to understand why)

2) 'c' is last divit q a axloxaxlot axloxc+ cxaxlot cxc = ax(ctd) + bx(ctd)= axc+axd+bxc+bxd

And from HW, we know that all powers repeat in cycles of 4. So, a will have same last digit 1) 23767 4593

HU: Solve 20 AI HW exercises coordining divisibility rules and best digits of powers.