Pop Joon-Doniel 98.236 L = 4 am 1 m - ms motival potret perfect } L'este un limboj independent de context? Soco L'este independent de context -> -> p>0 (p-lungimea pomposii) a.T. V WEL au physistotea Co |W| ≥p poote f. rolis ca W= UV XYZ) unde skulle u, v, x, y, z ou proprietable

1/xy | = p r 1/41=1 o uvi xyizeL, ti=0 Plesupurem co 2 este independent de context H  $p \in N$  p > 0  $\exists w = a^2$   $(p^2 e potatel$ perfect a  $(u^2p)$ - considerion u is 2 car find sevente lide => W= VXY V= a l≥0  $X = \alpha^{m} \qquad m > 0 \qquad m < p$   $y = \alpha^{p^{2}-l-m} \qquad p \leftarrow c = 1 \times y + 1 \leq p \Rightarrow 1 + m = p^{2}$  $fi=2 \Rightarrow v^2xy^2$  $\alpha^{2l+m+2p^2-2l-2m} = \alpha^{2p^2-m}$ m = p } => m mp < p 2 / 2 =) 2mp < 2p2 /-m 2mp < 2p2 - m ) 2p2-m mu poote f potest perfect deduce objects dinthe produce potest perfect e mos more desert p, => 2p2 > 2p (df potential)

 $(p+1)^{2}-p^{2}=p^{2}+2p+p-p^{2}$   $=p^{2}+2p+p-p^{2}$   $=p^{2}+2p+p-p^{2}$   $=p^{2}-2p+1>p>m$   $=p^{2}-2p^{2}-2p+1>p>m$   $=p^{2}-2p^{2}-2p+1>p>m$   $=p^{2}-2p^{2}-2p+1>p>m$   $=p^{2}-2p^{2}-2p+1>p>m$   $=p^{2}-2p^{2}-2p+1>p>m$   $=p^{2}-2p+1>p>m$   $=p^{2}-2$