Vicente Maselli 3914385 Y=1; K=0; \* Assume n=4 While (K c> n) do (m,e) => 0 (m, while e Jo c) => m { Y:= Y\*n; K:= K+1; 3]c (m,e)=> n nonzero (m,c) -> m' (m', while e (m, while e do c) -> m" ( >> m" (m, K=0) => (K=0, y=1) => m' (m', c) => (y=4, K=1) m" (m', e) m" => (y=16, K=2) (m", c) m", e)  $(m''', c) \Rightarrow (y = 64, K=3) m^4$   $(m^4, c) \Rightarrow (y = 256, K=4) m^5$ [m", e) => m4, e) => n5 (2) Assume P P= n>0 y=1; K=0 ; \* Assume N=4 Assert Q While (K<>n) do y= 4 mk Y=1\*4 K=1. 4'-4 K=0+1 y=16 42=16 y = 4 \* 4 K=2 43=64 K=1+1 y = 16 \* 4 y = 64 49 = 256 Assert R K=2+1 K=3 y = 64 \* 4 y = 256 K=4 K=3+1

