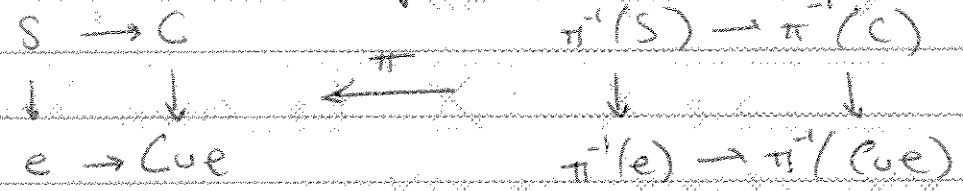


- Consider
- A) $\pi^{-1}(c) \rightarrow C$
 - B) $\pi^{-1}(e) = e \times F \rightarrow e$
 - C) $\pi^{-1}(S) = S \times F \rightarrow S$

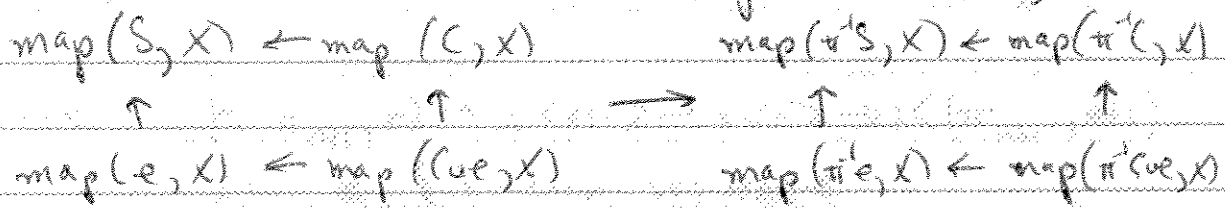
Claim: (*) true for A), B), C):

- A) done by hypothesis
- B) $\text{map}(e \times F, X) = \text{map}(e, \text{map}(F, X))$
 $\hat{=} \text{wh } \text{map}(e, X)$
- C) same as B)

Maps of cofibration pushout diagrams:



via $\text{map}(, X)$ leads to maps of fibration pull back diagrams



(*) true for A), B), C) \Rightarrow

(*) true for $Cue \longleftarrow \pi^{-1}(Cue)$

$\therefore C \not\subseteq Cue \Rightarrow C$ not maximal. $\therefore C = B.$