

Pumping lemma script:

Your script	Pumping Lemma script
"I'm giving you a language L."	"Is L Regular? In this shop I only work on Regular Languages."
"Uh...sure...let's just say it's Regular."	"Good. For the Regular language L that you've given me, I pick this nice pumping length I call m."
"Excellent. I'm giving you this string w that I made using your m. It is in L <i>and</i> $ w  \geq m$ . I think you'll really like it."	"Great string, thanks. I've cut w up into parts xyz for you. I won't tell you what they are exactly, but I will say this: $ y  > 0$ and $ xy  \leq m$ . Also, I make you this 100% Lifetime Warranty: you can remove y, or copy it as many times as you like, and the new string will still be in L, I promise!"
"Hm. I followed your directions for xyz, but when I [ <i>copy y N times or delete y</i> ], the new string is NOT in L! What happened to your 100% Warranty??!"	"Well, then L wasn't a Regular Language. Since you lied, the Warranty was void. Thanks for playing."