Since this is a metapuzzle, the inputs to this gadget are the answers to the previous puzzles. The gadget takes a word and throws away the middle two letters. But this doesn't give us any useful letters. Instead, run this gadget backward (clued by "backward in time" and "reverse-engineer") by adding two letters to the middle of the word.


## DOUBLE NEGATIVE

That is, you use the blueprint to build a new backward-only time machine and put it inside the old one. Since two negatives make a positive, the time machine now goes forward in time. This is totally how time machines work, right?

