Try to figure out what this machine does. Assume that the tape has only 0's on it; that there are at least 2 0's total; that they come in a single cluster; and that the tape starts to the left of the cluster.

Here's the table:

(I've listed this in a different format, but it works the same way the previous ones did. The only difference is that the states are now numbered 0/1/2/3 instead of A/B/C/D. Why did I do this? Because, having just made it up from scratch on paper, I wanted to double-check that it worked before posting it for you. So, I went to a TM simulator — such as the ones now linked on our website! — and I typed it in like this, and then ran it on some sample strings. You could try this too, if you're having any trouble figuring out what it does!)

**Bonus question:** Assuming that the tape is infinitely long in both directions, this TM is dumb and overly complicated (if not downright tricky and annoying). Why? How could it be much simpler?