

PS05-02

February 7, 2018

1. Mark the ends of w with directional end markers.
2. Scan w until there is a 1. Mark it blank.
If at this point, w is empty or does not contain 1s, accept.
3. Continue scanning until there is a 0. Mark it blank.
If there are no more 0s, then accept
4. Continue scanning until there is another 0. Mark it blank.
If at this point, w is empty, reject. If not repeat step 2.

Note that I included the directional end markers to enable the machine to scan in a zig zag pattern.