

At the beginning, use that ise M, and

M3:

M2 ces macros, when M, and out

And reaches M, Ni has two case:

And reaches M, Ni has two case:

M2 return true or tasle. When M, reture true

The M3 will readmain, because the

ZnPub S Wo H with w. Hux 100 pin

Main tape: when two repeat the loop unital read

will to have repeat the loop unital read

True main Li then the Accept (reture T)

otherwise when M1 reture

Therwise when M3 terms

Yead main Fasle then M3 terms

Yeturn False

Treturn True

4.

The Problem is in NP, because, we need check the two tape nondeterministin TM can be converted into a polytime one tape NDTM For the M3, to so the complexity of the M2 is O(N) and the M3 remainly NDTM is a complexity is also O(N), so the both is time complexity is Polytiment atime. In conclusion this decision Problema is in NP.