

Task 1. This task consists of building a simple calculator using a Turing machine (may use nested machines). The machine will manage basic operations (+, -, *, /) used in infix position. Moreover, the calculator should execute a single operation and leave the result on the tape. For simplicity we will suppose the calculator can only manage natural numbers, and use integer division.

The numbers will be represented by a sequence of 1, and the operations by their corresponding symbol. All input strings will be bounded by #, for example #11/1111#.