Name-Dipenda Ghosh
Class-M-Sc. 2nd year (Semester 3)
Rollno-07

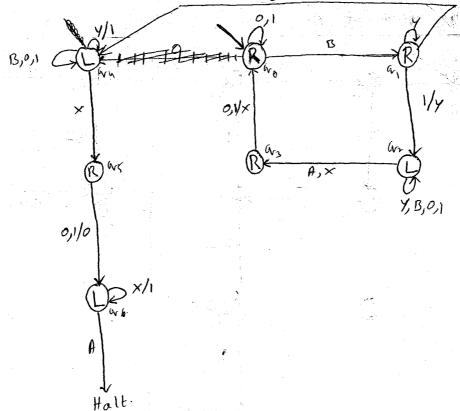
Automa ta

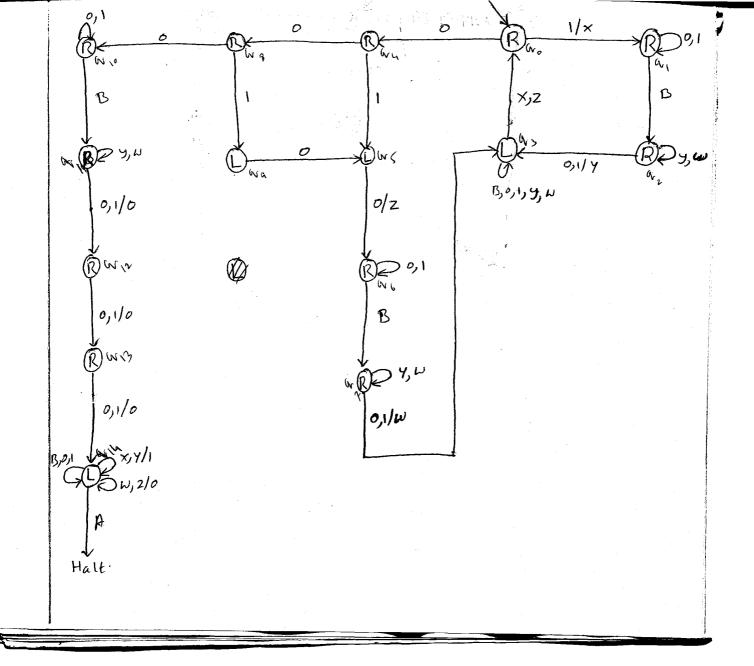
Righto to Left Copy.

A0101110100 - B1111100+10-

Assumptions:

- 1) Inifinitely Long tape
- 2) Copy from right to left. Right symbols are the input indicated by 'B' which is to be copied to the left starting from 'A'.
- 3) Unary symbol is represented by 1
- 4) Termination of string by 'O'
- 5) Replacing the input symbols by X' after reading and writing the output symbols by X'.
- 6) At the end of processing all the X's and Y's are replaced by 1
- 7) Initially the tape head is at 'A' and at the end of the processing the tape head returns to 'A'





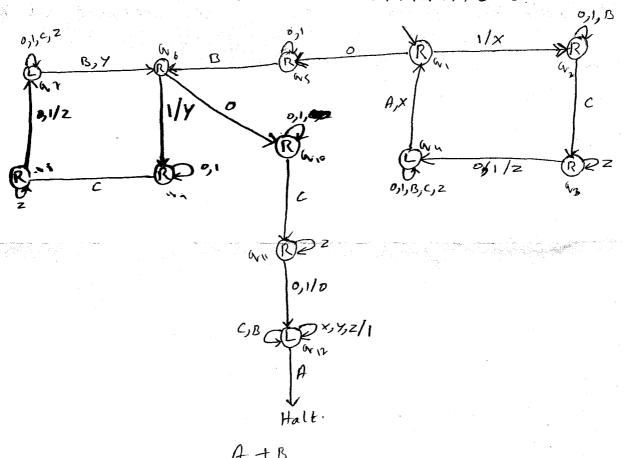
Assumption first.

1) The 11's of a input are replaced by X's initially

2) The 11's of Second input are replaced by 14's inshally

3) The il's of the output are written as 12's instralle 4) The inputs are terminated by a single 10' and the output is also bernmated by a single '0'

A111110 --- B/1110 --- C1111111110 --



A+B

Mutiplica hons

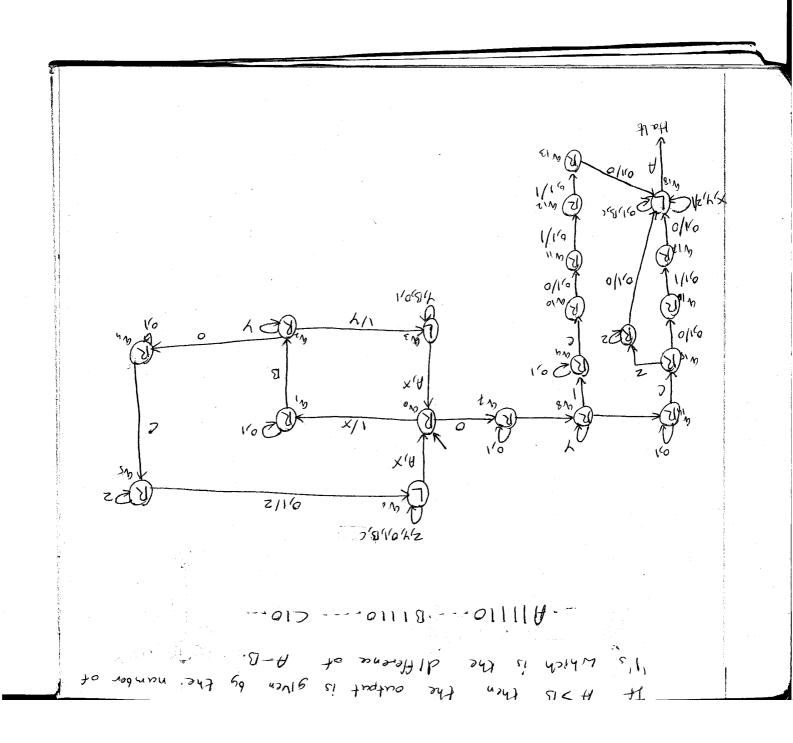
Assumptions.

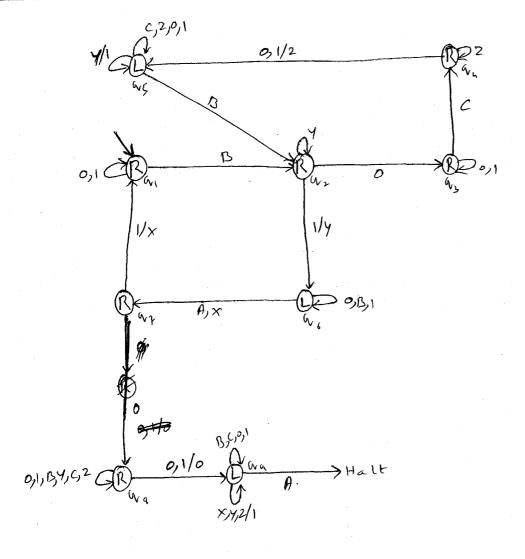
Halt.

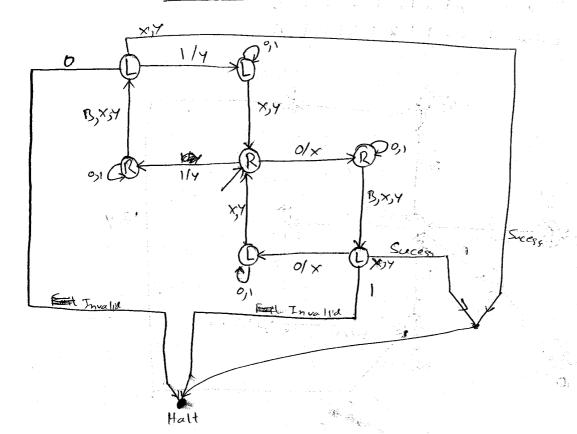
- 1) The 'l's of the inputs are initially replaced by 'x's and 'y's.
- 2) The '1's of the output are written initially as z's and after the processing they are replaced by '11's
- 3) The inputs and the output are replaced by terminated by single 'O's

2 CR Wa Ray B R 1/x R 20,1/2 R C,2,2,2,1

BXA







Reversing a string of 1's A12121211 Input -C211212121 \mathcal{D} Output -2/4 X11,7121,205 (E) 1,2/x Hall

