

Alan Turing

Turing Machine

Theoretical Computer Science

Computer Science

How do I make a turing machine simulator to perform binary addition?

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2 ANSWERS



Uday Kandpal, Thinker

Written 28 Jan 2015

on internet. One I found is here : [Turing machine](#)

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addition or copy the given commands (loaded

space, e.g '100 1110'

 0_r1
 0^*r0
 1_l2
 1^*r1
 20_l3x
 21_l3y
 2_l7
 $3x_l4x$
 $3x^*l3x$
 $3y_l4y$
 $3y^*l3y$
 $4x0xr0$
 $4x1yr0$
 $4x_xr0$
 $4x^*l4x$; skip the x/y's

 $4y0l^*5$

4y10l4y

4y_1*5

4y**l4y ; skip the x/y's

5xxl6

5yyl6

5__l6

5**r5

60xr0

61yr0

7x0l7

7y1l7

7__rhalt

7**l7

Well, another thing people cannot tell how to make a simulator on Quora :-):-D

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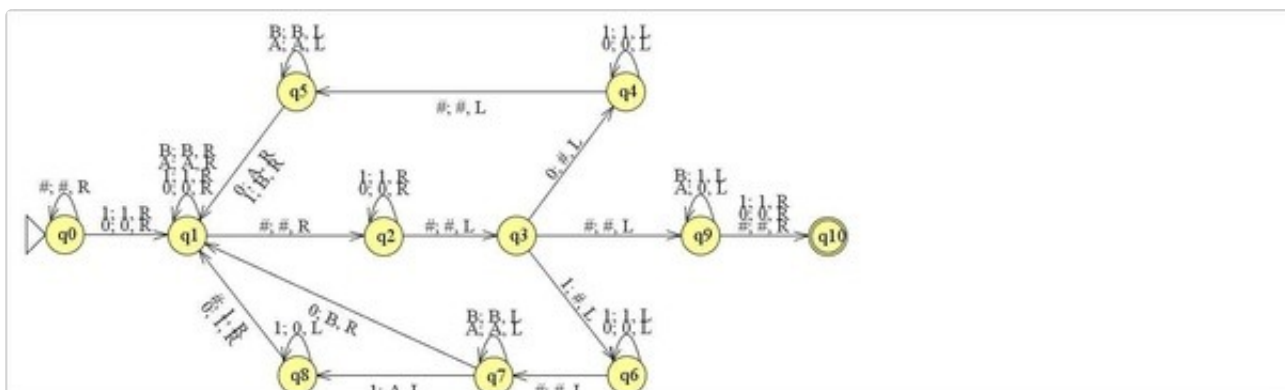
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Hari Krishnan, B.E. Computer Science & Mathematics, Kendriya Vidyalaya (2017)

Updated 9 May 2016



Here is my solution for addition of binary numbers.

'#' is blank symbol.

0 and 1 are binary bits

A and B are temporary replacements for 0 and 1 respectively.

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