power of 2?	_	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>9</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	$(q_{re},   \_,   \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2, \lrcorner, \mathcal{R})$	$(q_{re},  \Box,  \mathcal{L})$
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2, \lrcorner, \mathcal{R})$	(q <sub>re</sub> , □, L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$q_5$	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,  \_,  \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$q_5$	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	u u	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5,  \_,  \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

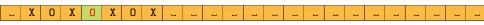
power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

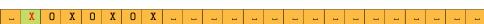


power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

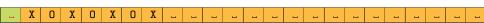


power of 2?		0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

_	0	X
$(q_{re},  \_,  \mathcal{L})$	$(q_2,      ,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
$(q_5, L, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$
	$(q_{acc}, \square, \mathcal{R})$ $(q_5, \square, \mathcal{L})$ $(q_{re}, \square, \mathcal{R})$	$(q_{acc}, \_, \mathcal{R})$ $(q_3, X, \mathcal{R})$ $(q_5, \_, \mathcal{L})$ $(q_4, 0, \mathcal{R})$ $(q_{re}, \_, \mathcal{R})$ $(q_3, X, \mathcal{R})$



power of 2?	_	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,  \_,  \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc},      ,    \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
$q_3$	$(q_5,  \_,  \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, \mathcal{R})$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



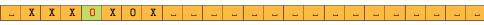
power of 2?		0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	$(q_{re},   \_,   \mathcal{L})$
<b>q</b> <sub>2</sub>	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$q_5$	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$q_5$	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



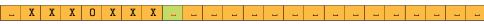
power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



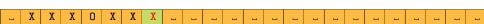
power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	<u>.</u>	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2, \lrcorner, \mathcal{R})$	$(q_{re},  \Box,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5,  \_,  \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



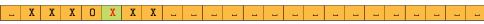
_	0	X
$(q_{re},  \_,  \mathcal{L})$	$(q_2,      ,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
$(q_5, L, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$
	$(q_{acc}, \square, \mathcal{R})$ $(q_5, \square, \mathcal{L})$ $(q_{re}, \square, \mathcal{R})$	$(q_{acc}, \_, \mathcal{R})$ $(q_3, X, \mathcal{R})$ $(q_5, \_, \mathcal{L})$ $(q_4, 0, \mathcal{R})$ $(q_{re}, \_, \mathcal{R})$ $(q_3, X, \mathcal{R})$



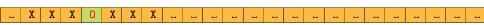
power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



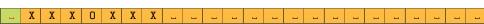
power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



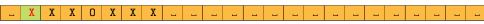
power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,  \_,  \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc},      ,    \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
$q_3$	$(q_5,  \_,  \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, \mathcal{R})$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

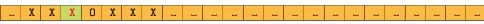


power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_{re}, \square, \mathcal{L})$ $(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

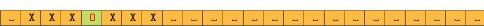


power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_{re}, \square, \mathcal{L})$ $(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_{re}, \square, \mathcal{L})$ $(q_2, X, \mathcal{R})$
<b>q</b> <sub>3</sub>	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



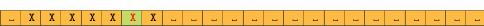
power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , □, L)
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, L, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc},      ,    \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	u u	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \square,   \mathcal{R})$	$(q_{re},   \_,   \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, L, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



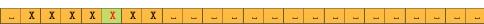
power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



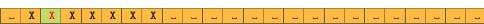
power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, R)$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



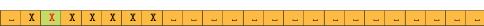
power of 2?	<u>.</u>	0	Х
$ ightarrow q_1$	(q <sub>re</sub> , □, ℒ)	$(q_2,  \_,  \mathcal{R})$	$(q_{re},  \lrcorner,  \mathcal{L})$
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>9</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,   \square,   \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_{re}, \square, \mathcal{L})$ $(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	J	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,    \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc},   \_,   \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, L, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



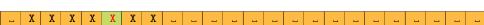
power of 2?	_	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	$(q_{re},  \_,  \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>9</b> 5	$(q_2,  \square,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



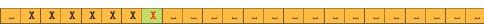
power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	$(q_{re}, \square, \mathcal{L})$ $(q_2, X, \mathcal{R})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \square, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	_	0	X
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \square,   \mathcal{R})$	$(q_{re},   \_,   \mathcal{L})$
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \lrcorner, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?		0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \square,   \mathcal{R})$	(q <sub>re</sub> , _, ∠)
<b>q</b> <sub>2</sub>	$(q_{acc},      ,   \mathcal{R})$	$(q_2, \square, \mathcal{R})$ $(q_3, X, \mathcal{R})$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, \mathcal{R})$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



power of 2?	u u	0	Х
$ ightarrow q_1$	$(q_{re},  \_,  \mathcal{L})$	$(q_2,   \lrcorner,   \mathcal{R})$	(q <sub>re</sub> , ∟, ∠)
$q_2$	$(q_{acc},  \_,  \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, R)$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2, \square, \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$



Halted (accepted) (Accept:  $q_{acc}$  , Reject:  $q_{re}$ )

power of 2?	<u>.</u>	0	X
$ ightarrow q_1$	(q <sub>re</sub> , ∟, ∠)	$(q_2,   \_,   \mathcal{R})$	(q <sub>re</sub> , <sub>□</sub> , L)
$q_2$	$(q_{acc}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_2, X, \mathcal{R})$
<b>q</b> 3	$(q_5, \_, \mathcal{L})$	$(q_4, 0, \mathcal{R})$	$(q_3, X, \mathcal{R})$
$q_4$	$(q_{re}, \_, \mathcal{R})$	$(q_3, X, R)$	$(q_4, X, R)$
<b>q</b> 5	$(q_2,  \Box,  \mathcal{R})$	$(q_5, 0, \mathcal{L})$	$(q_5, X, \mathcal{L})$

