

# Példák Turing-gépekre

**Fülöp Zoltán**

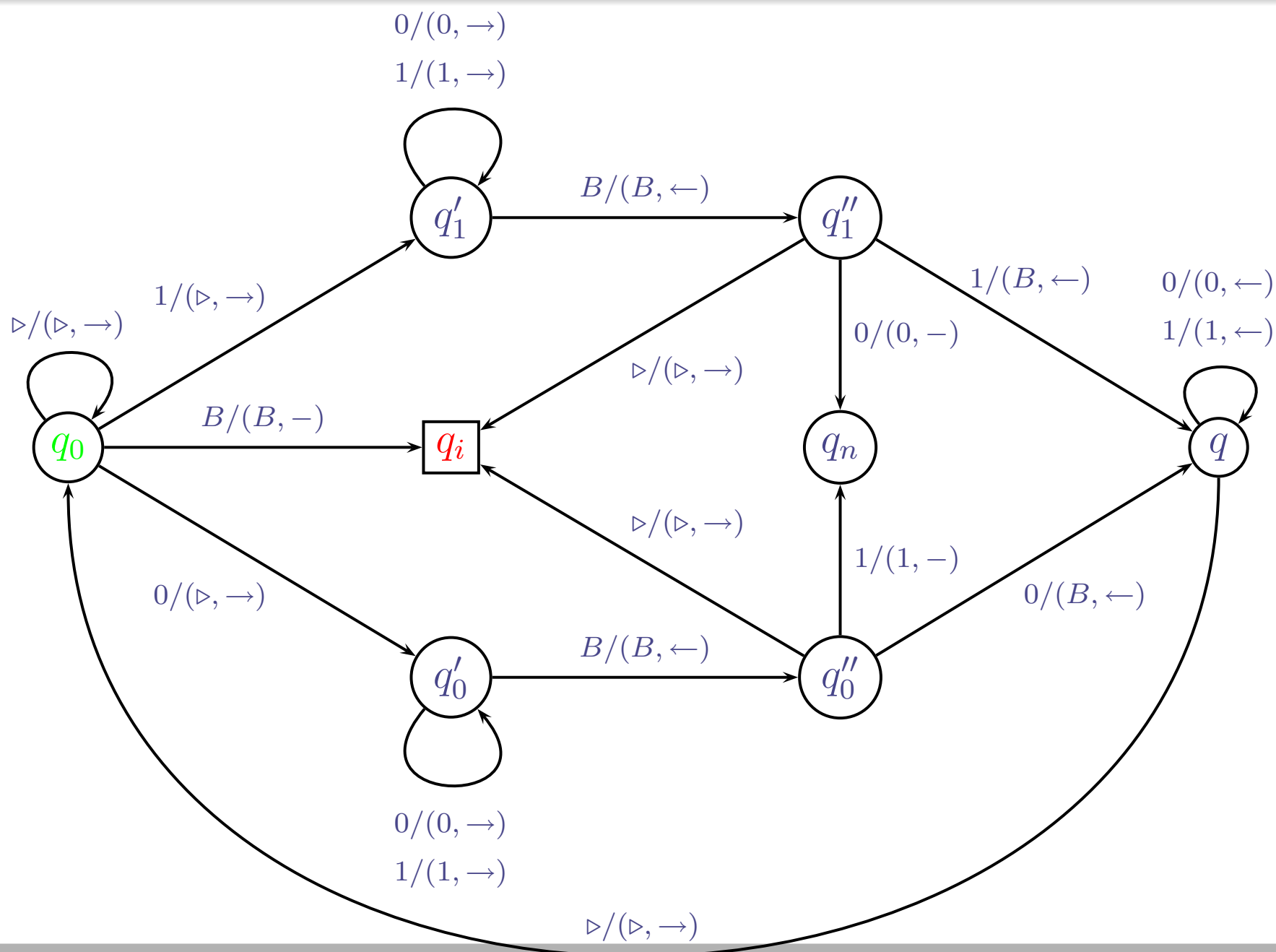
`fulop@inf.u-szeged.hu`

**SZTE TTK Informatikai Tanszékcsoport**

**Számítástudomány Alapjai Tanszék**

**6720 Szeged, Árpád tér 2.**

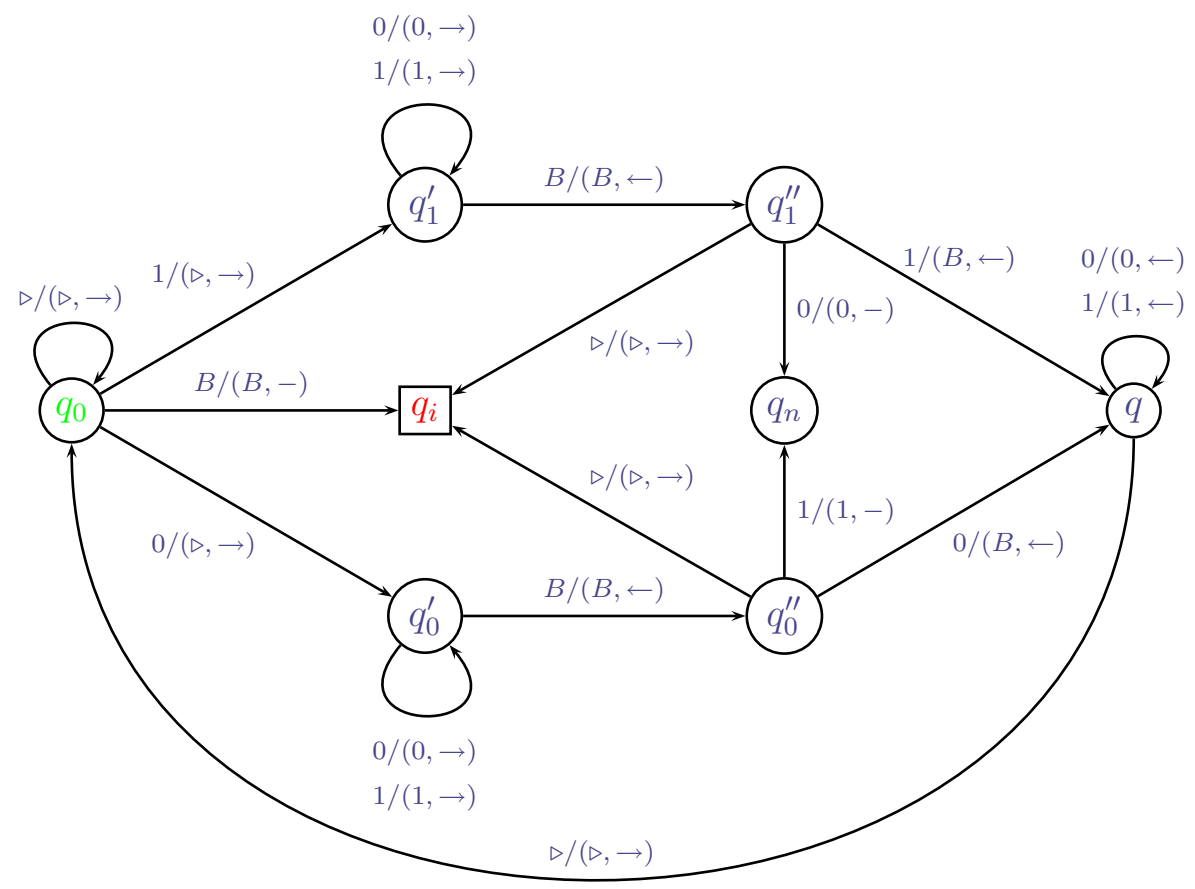
# A palindromákat eldöntő Turing-gép



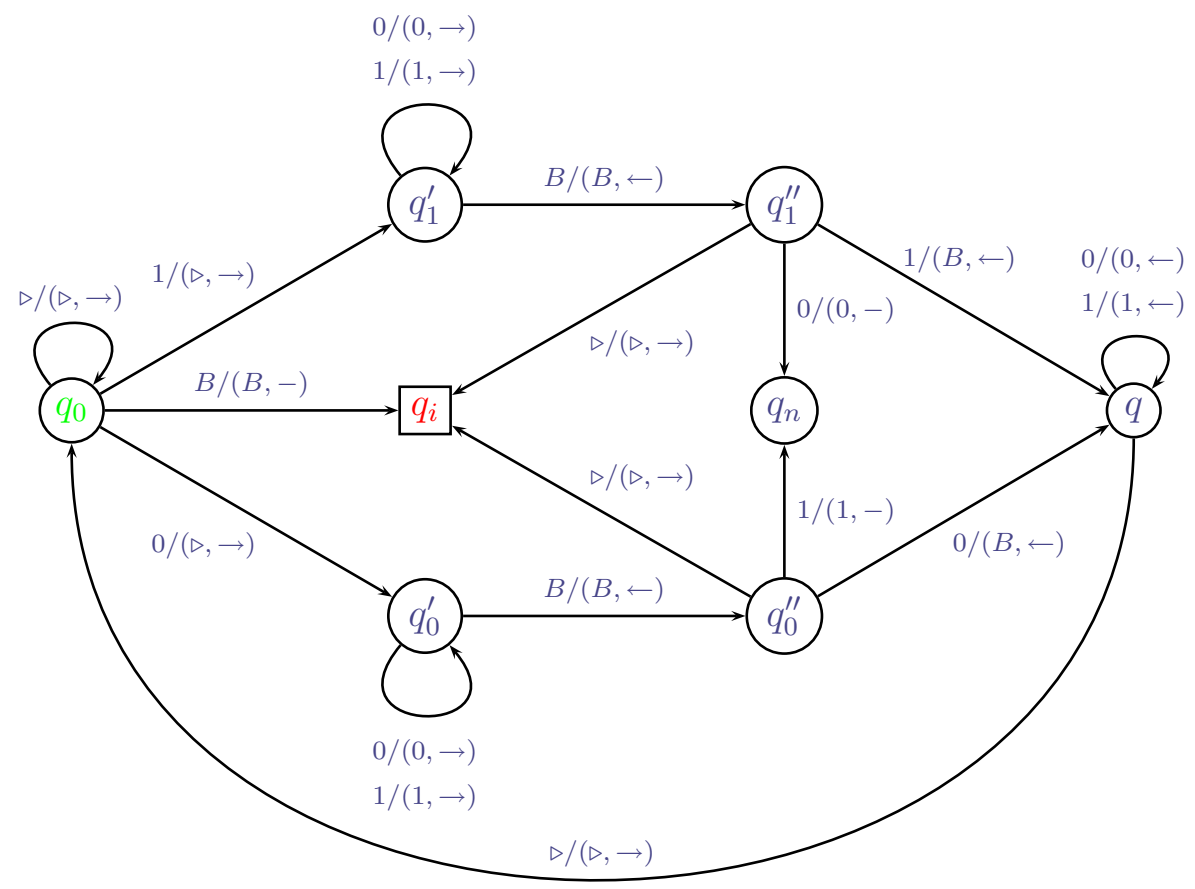
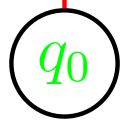
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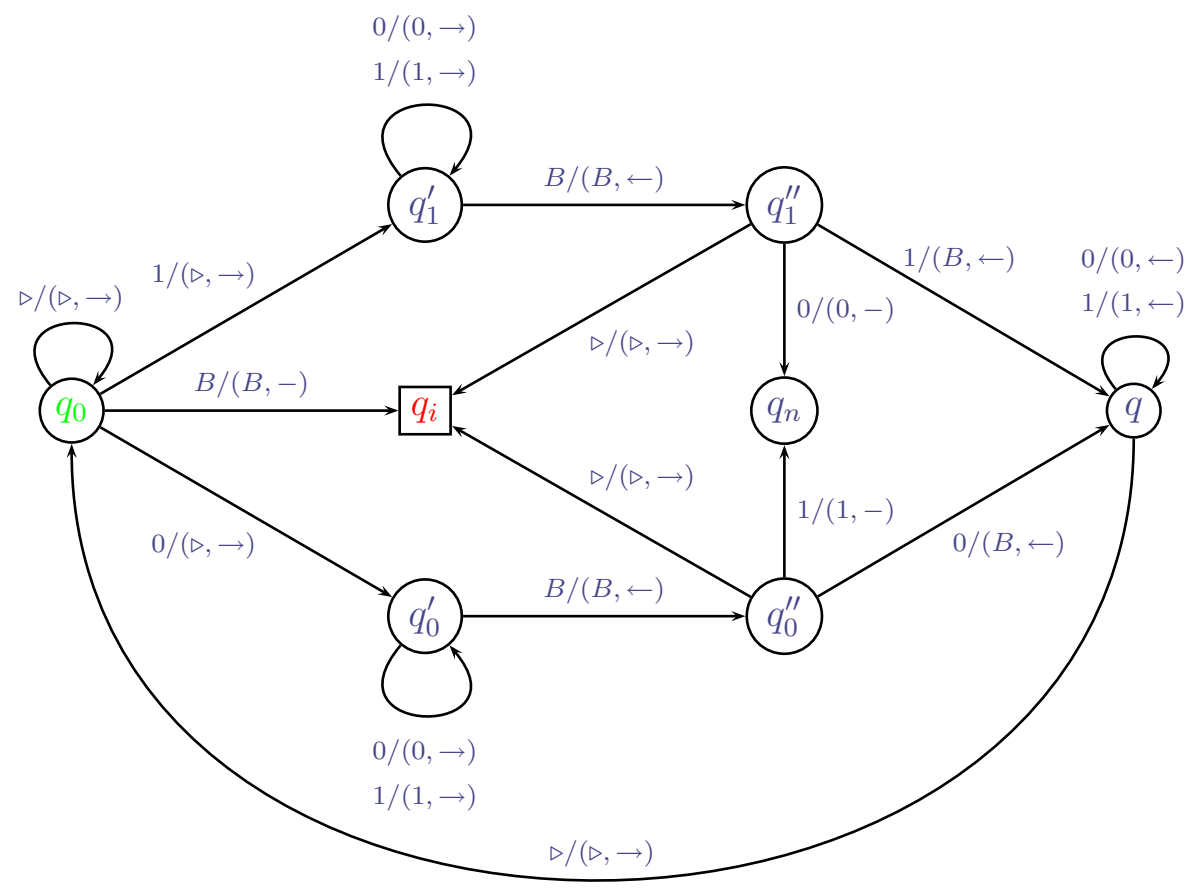
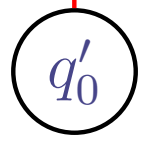
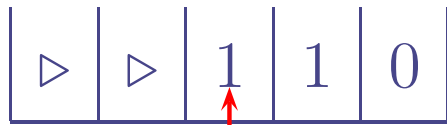
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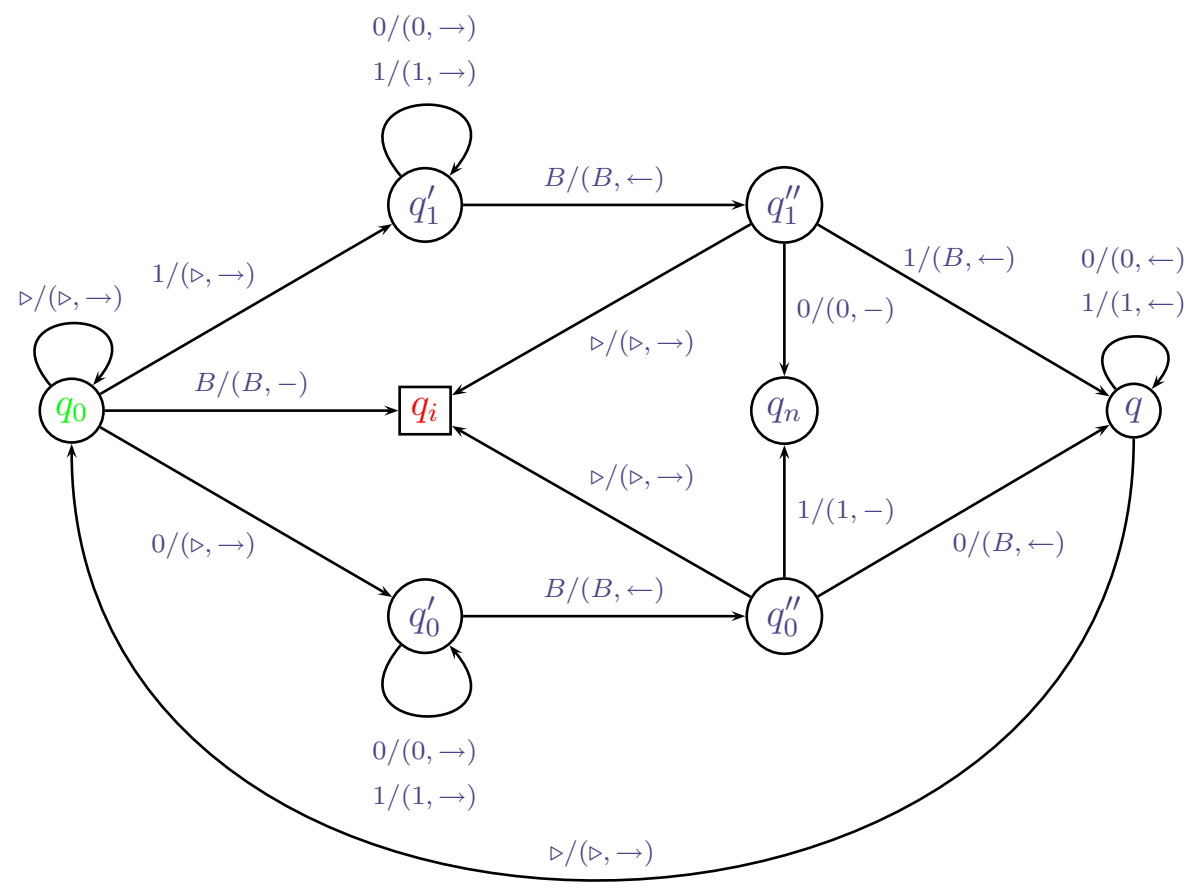
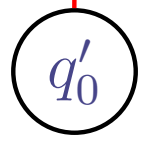
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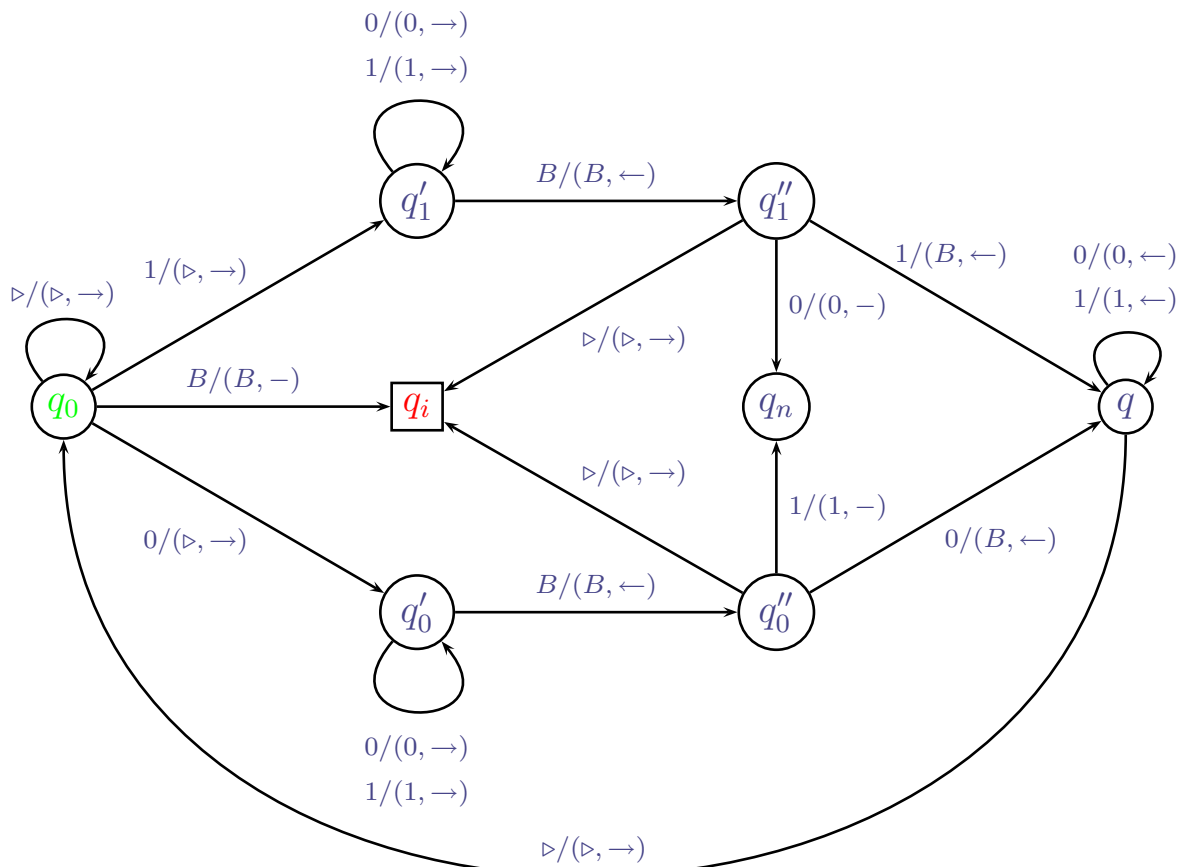
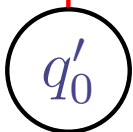
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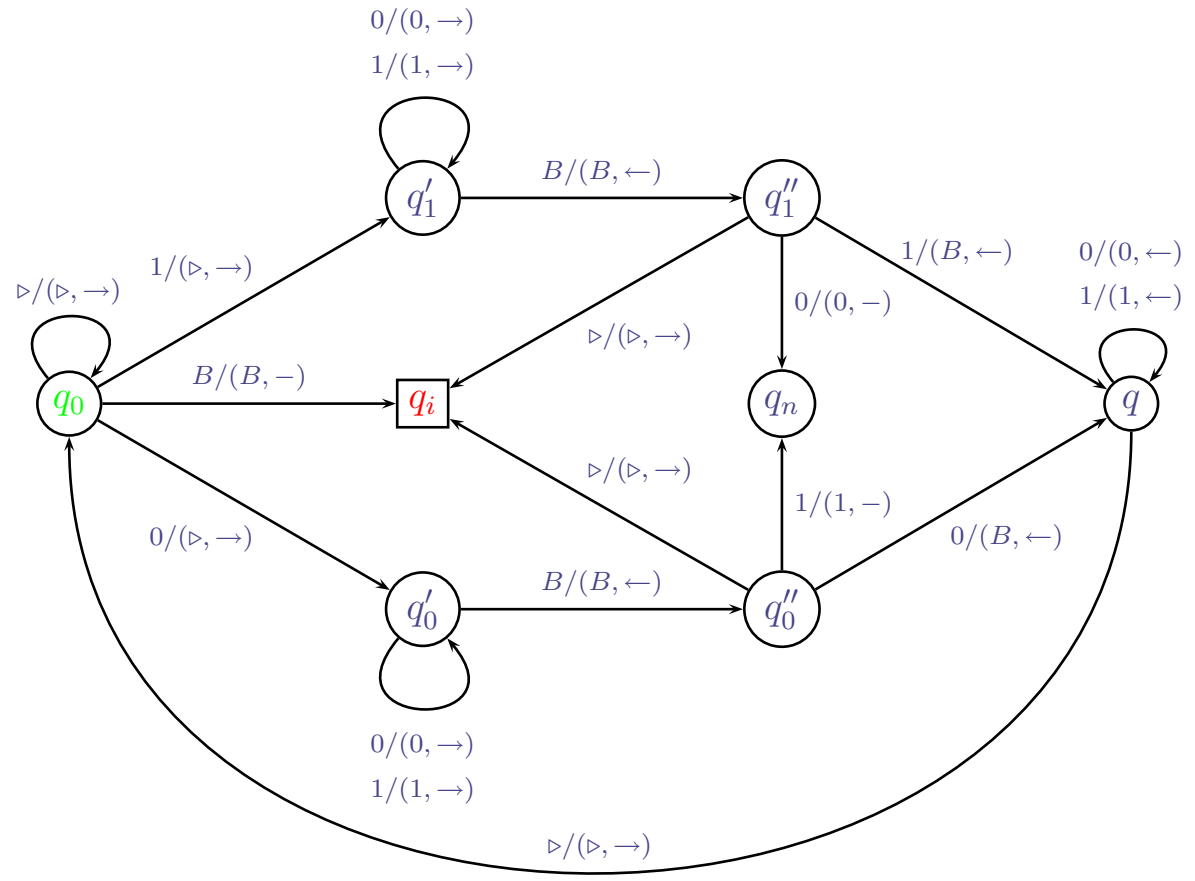
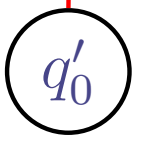
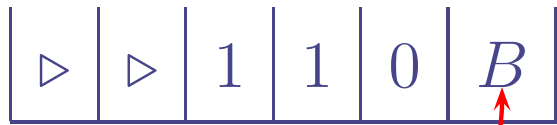
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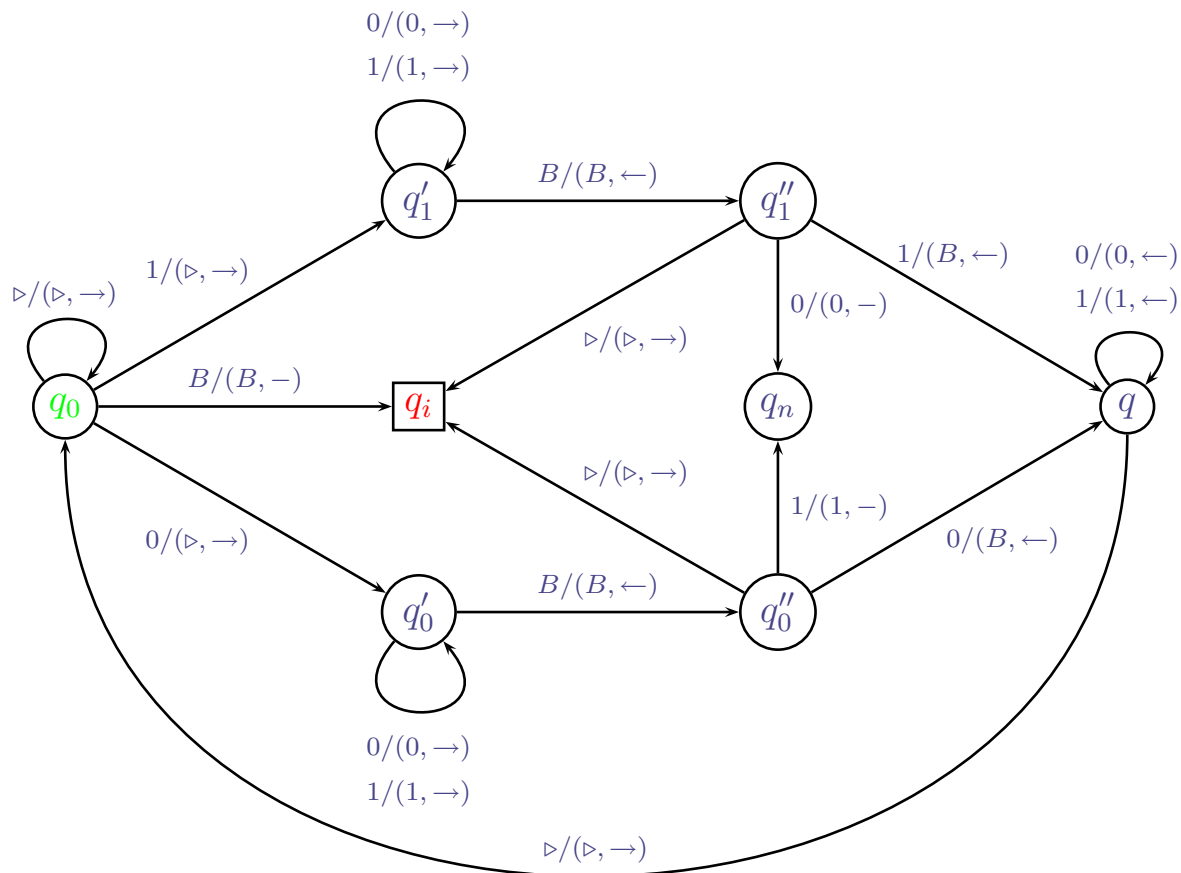
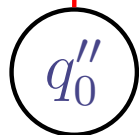


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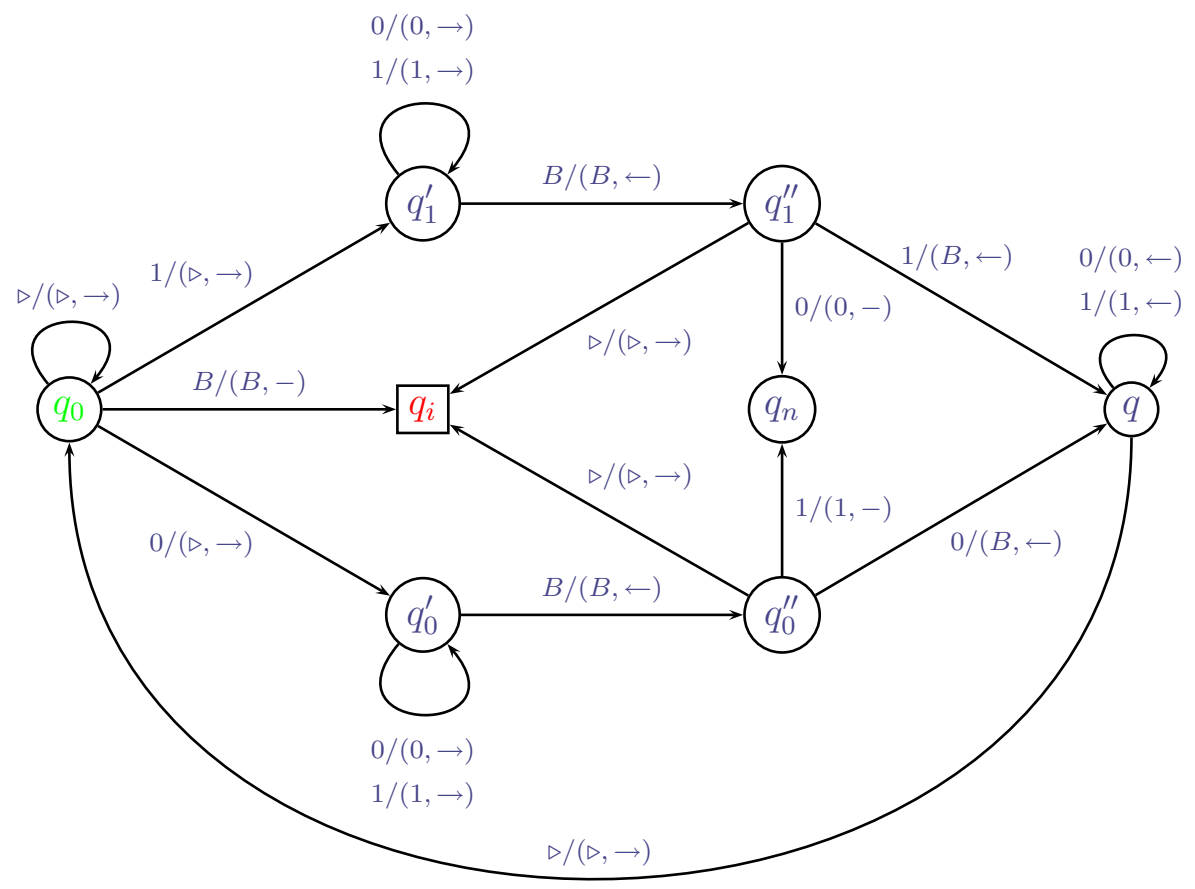
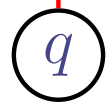
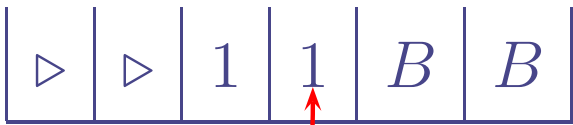




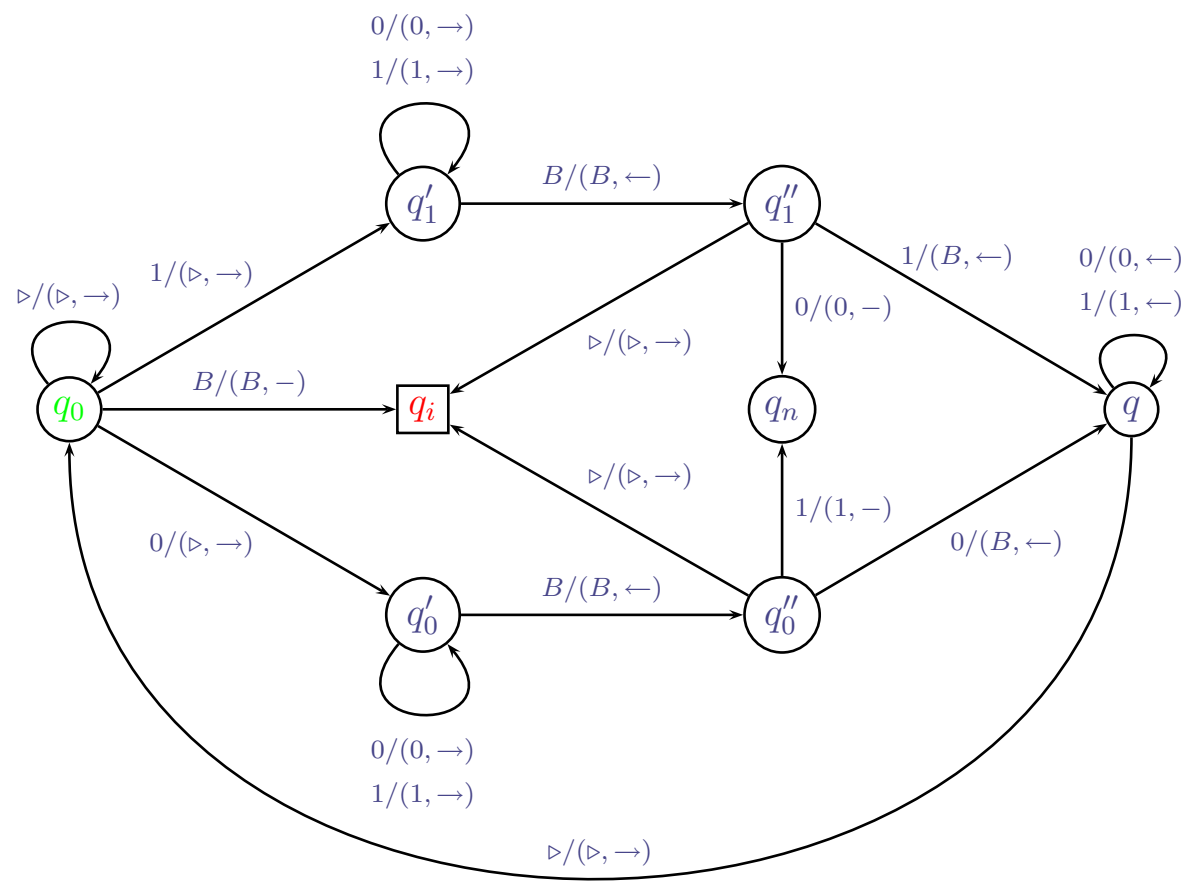
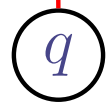
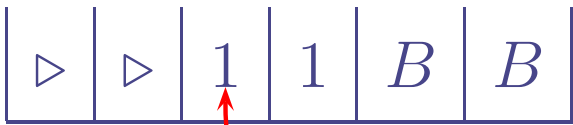
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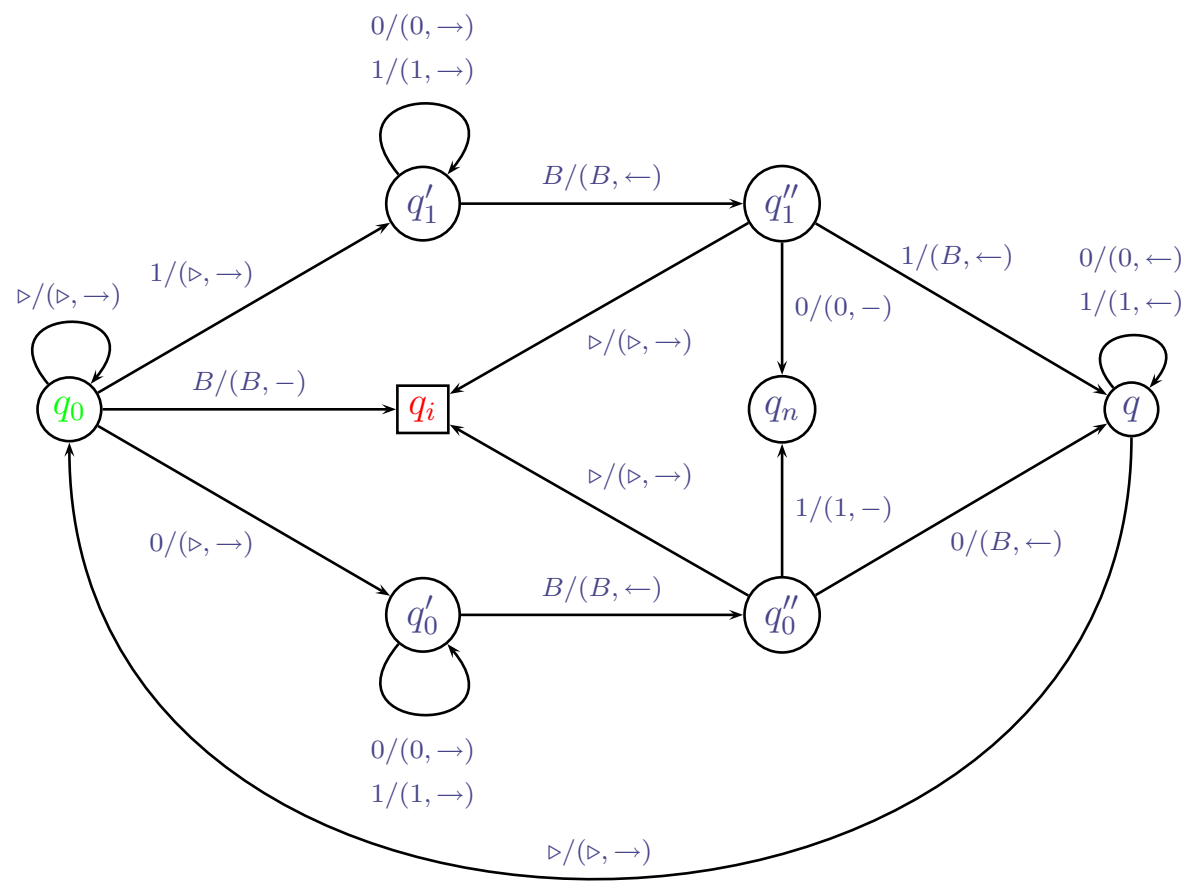
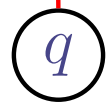
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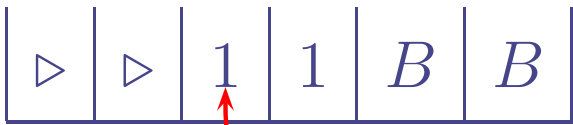
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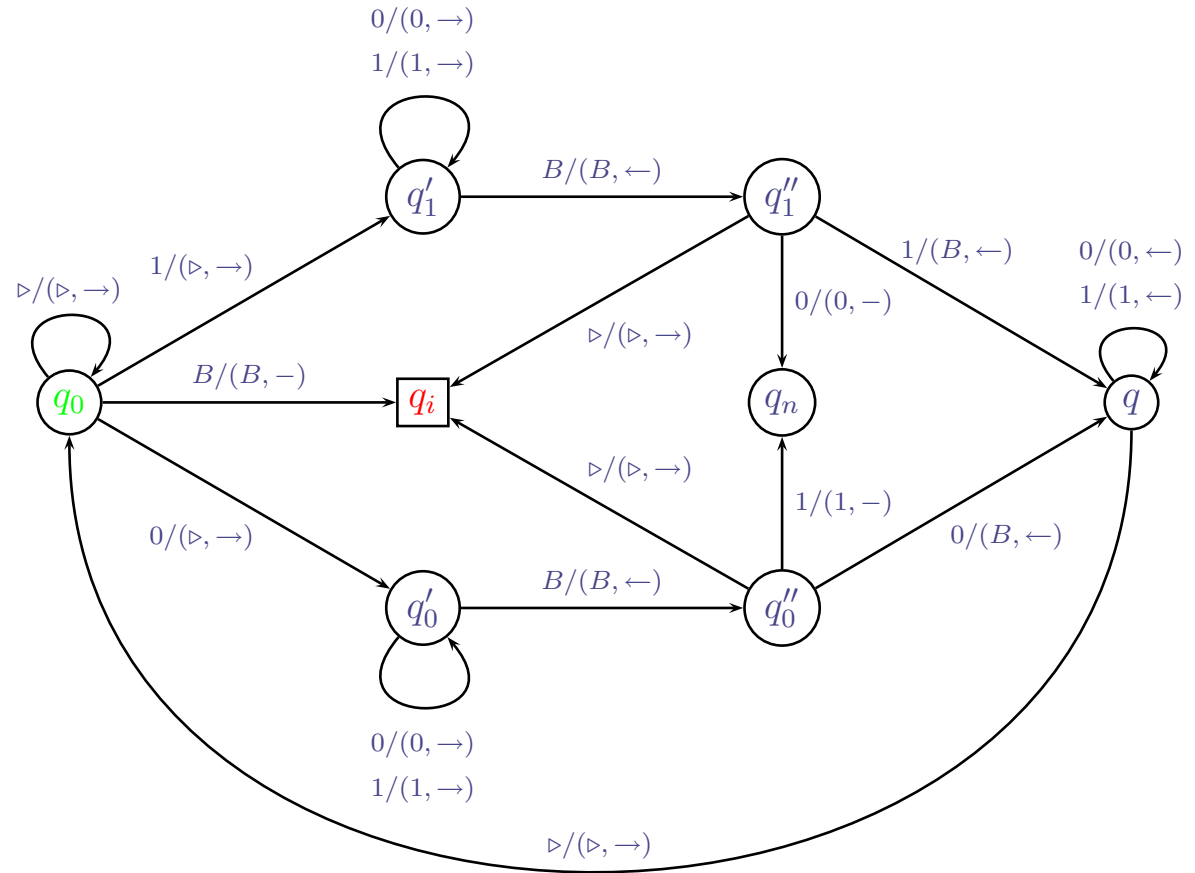
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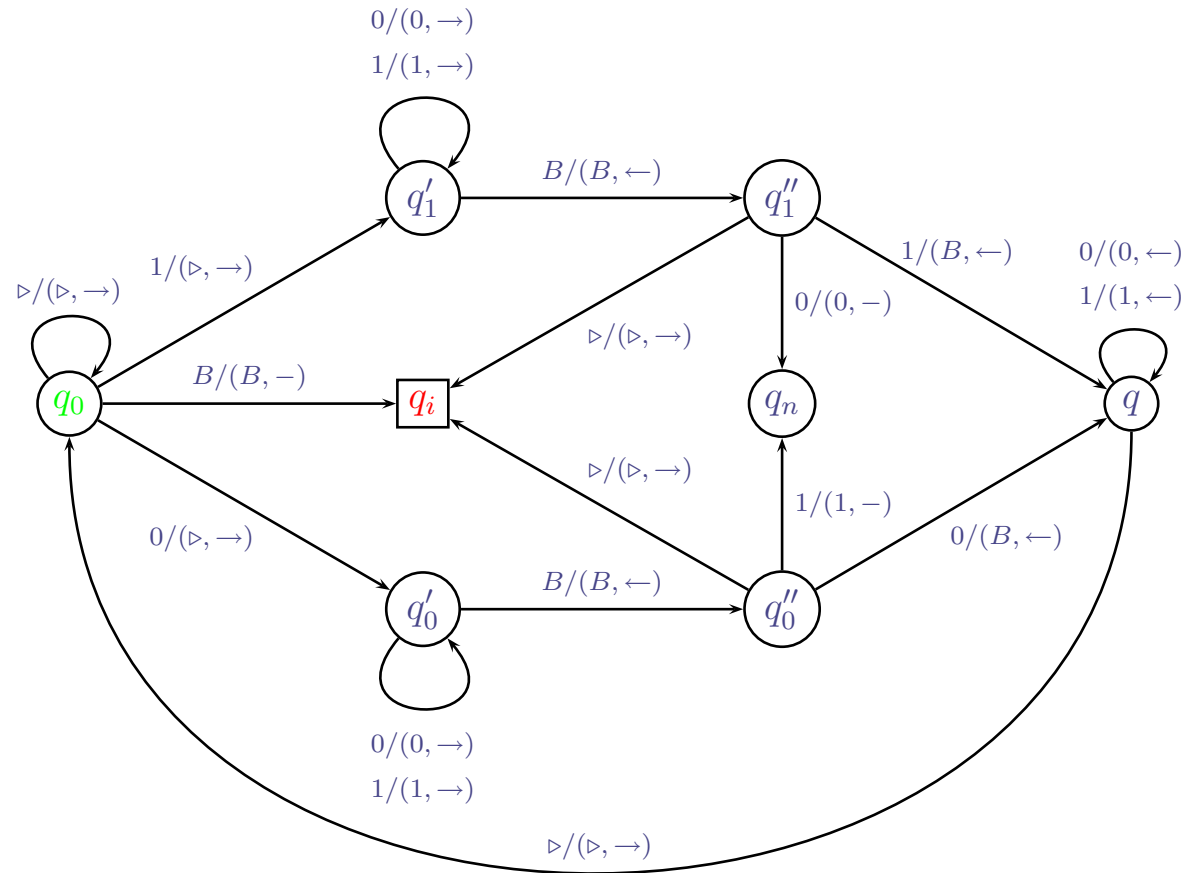
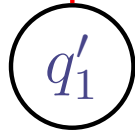
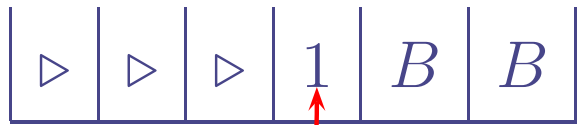
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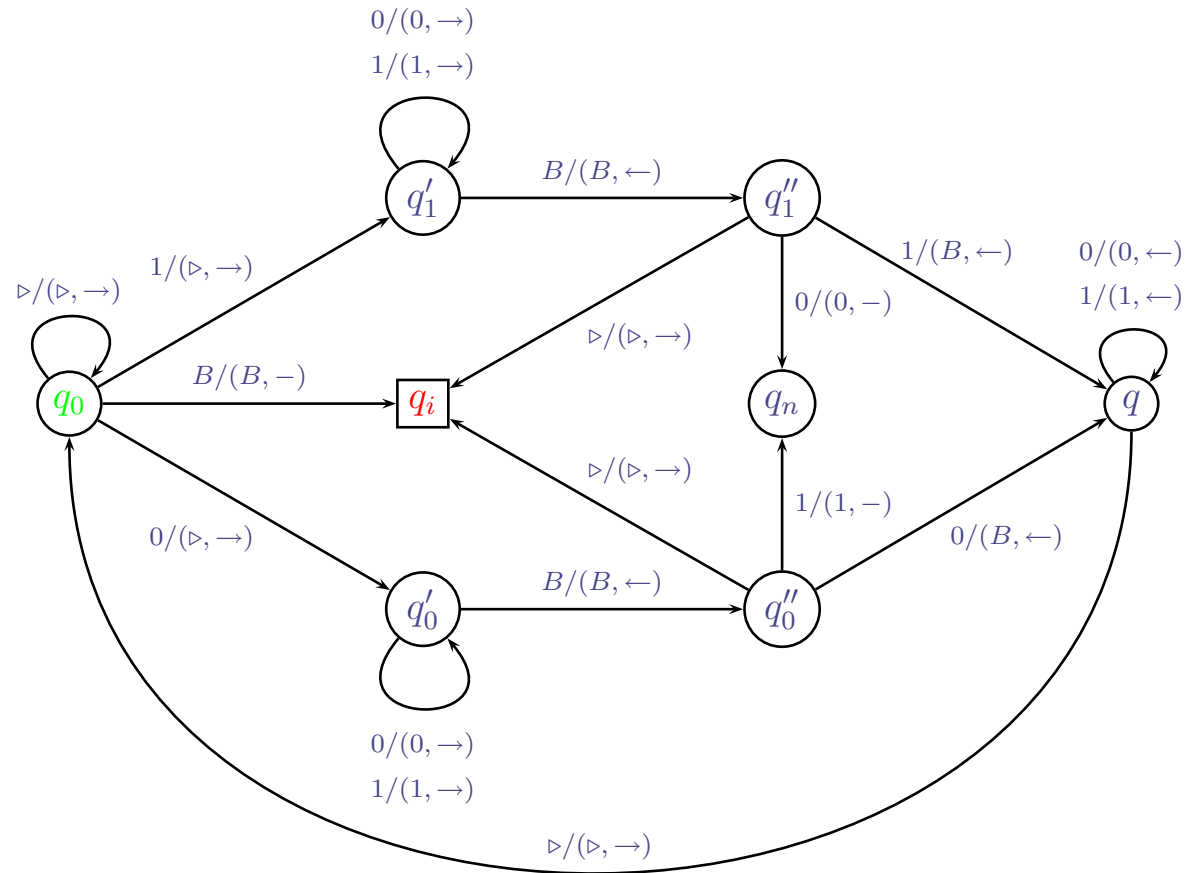
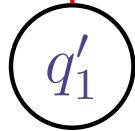
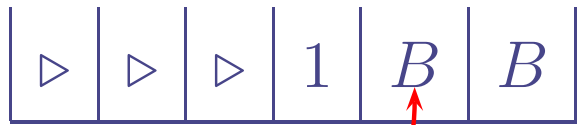
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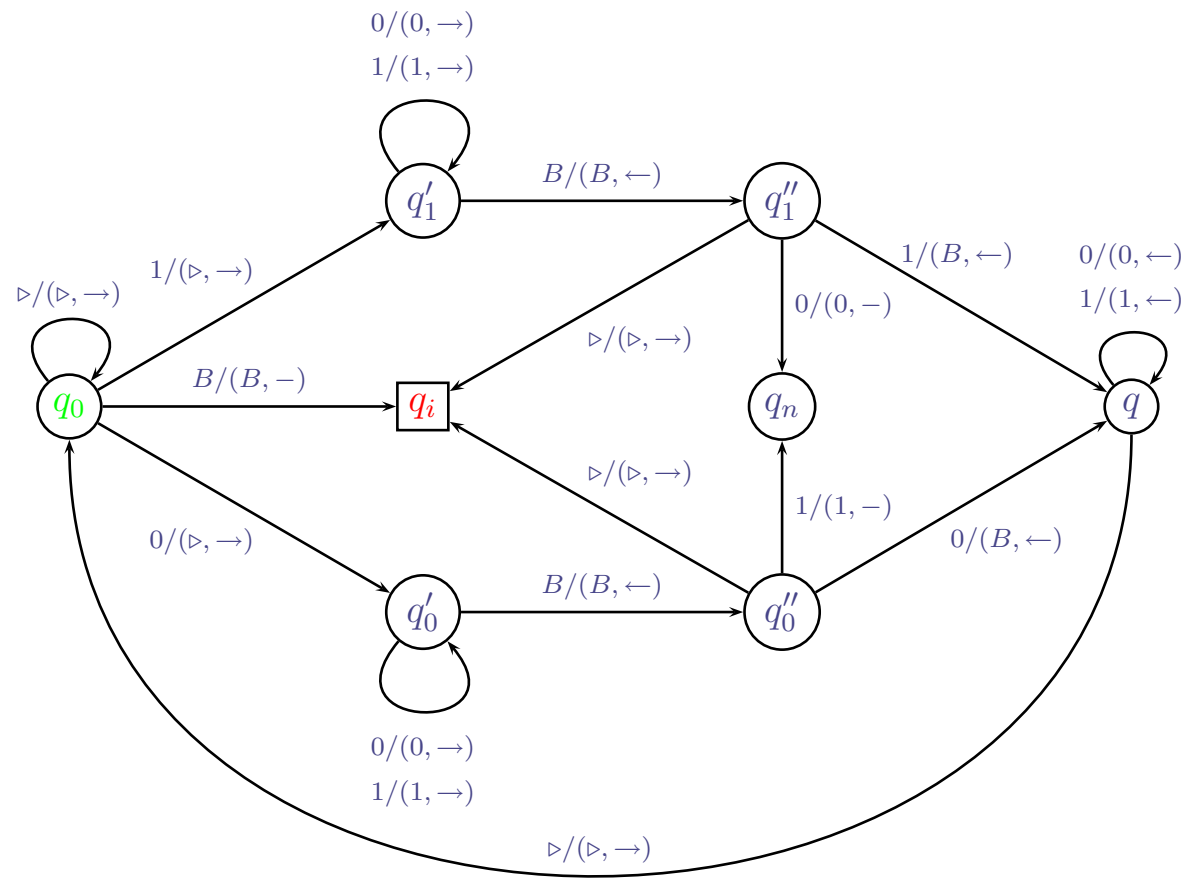
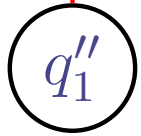
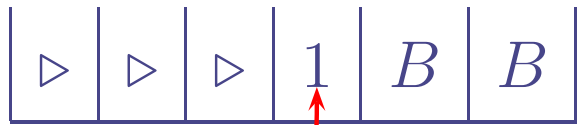
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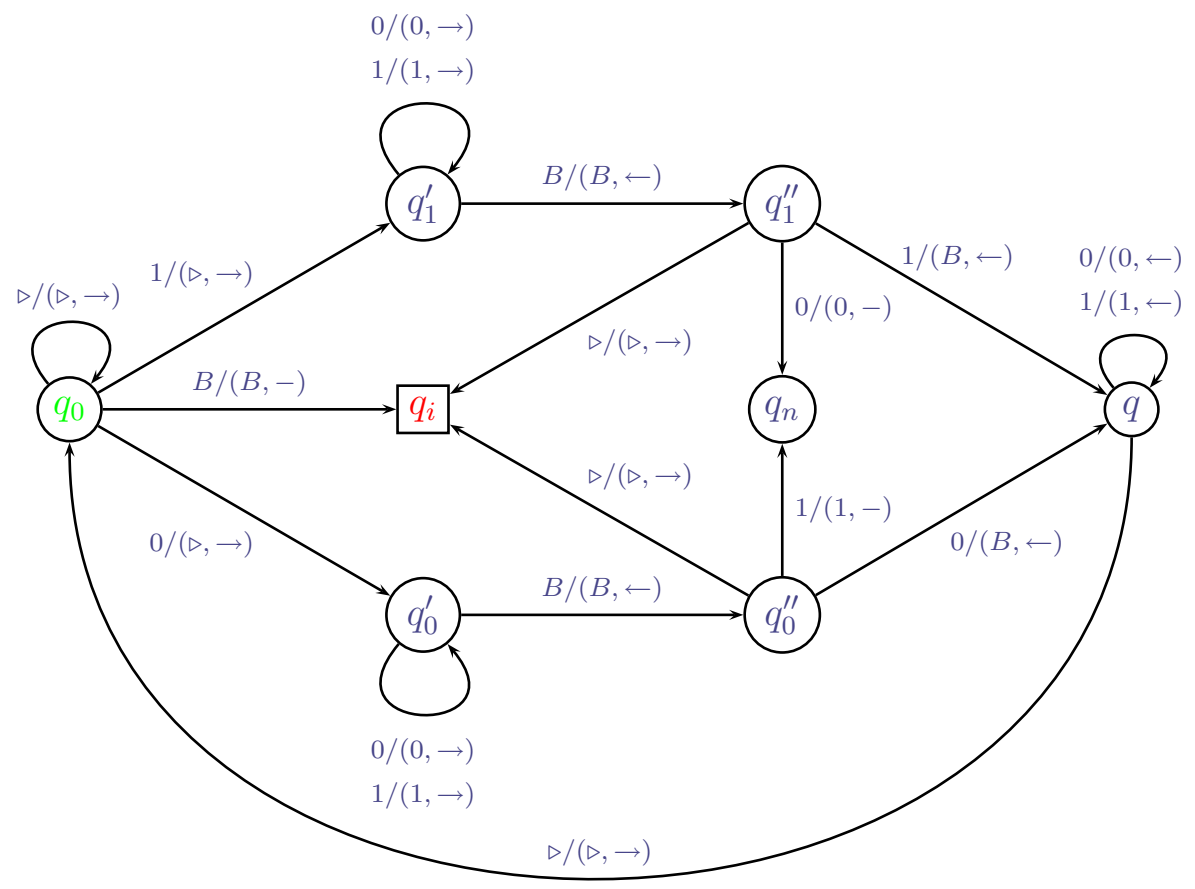
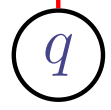
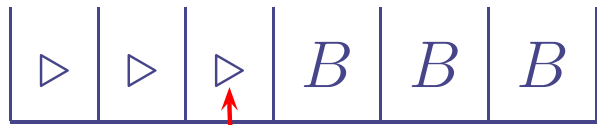


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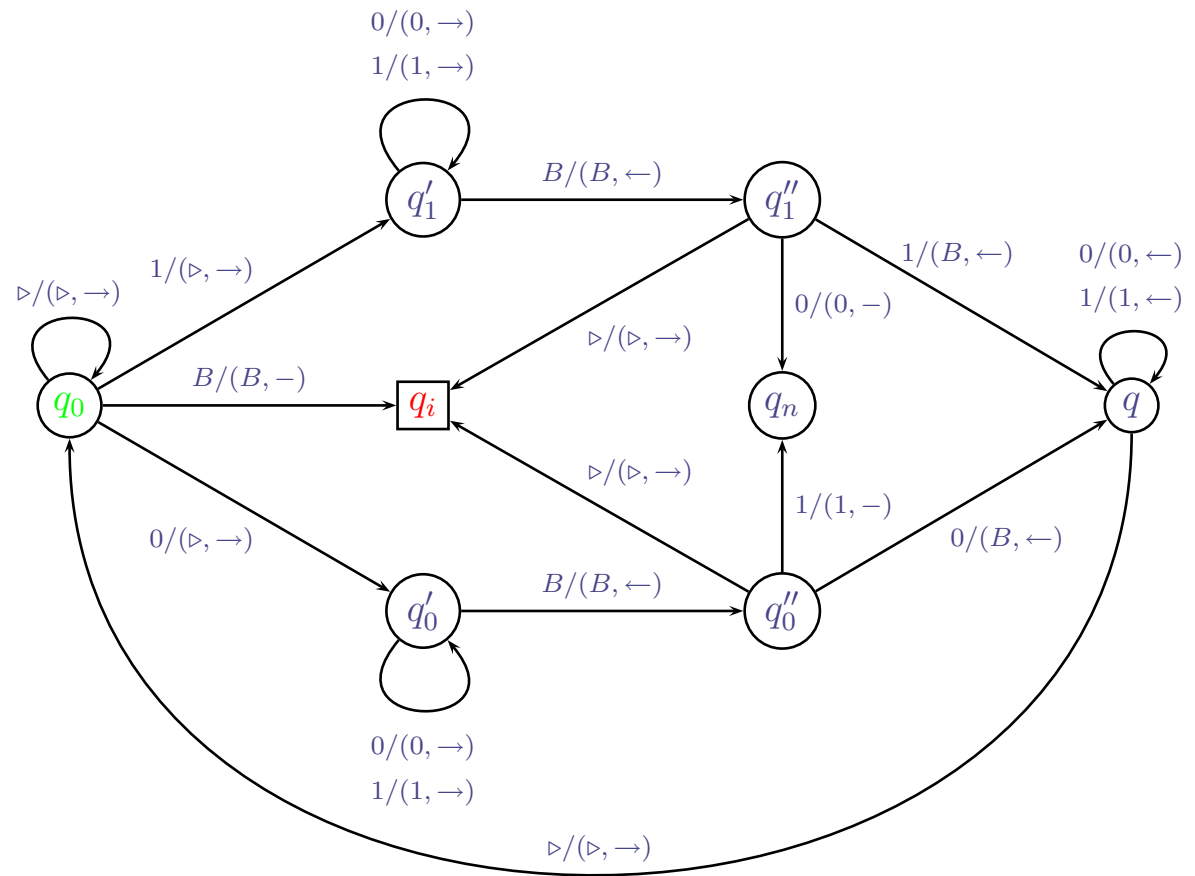
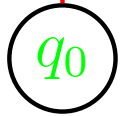
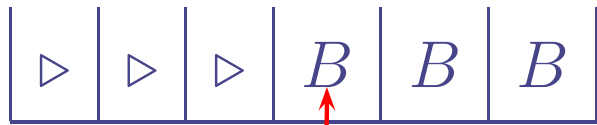




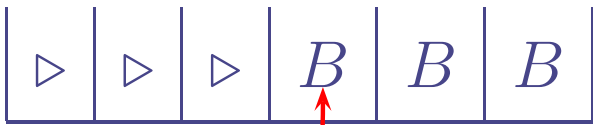
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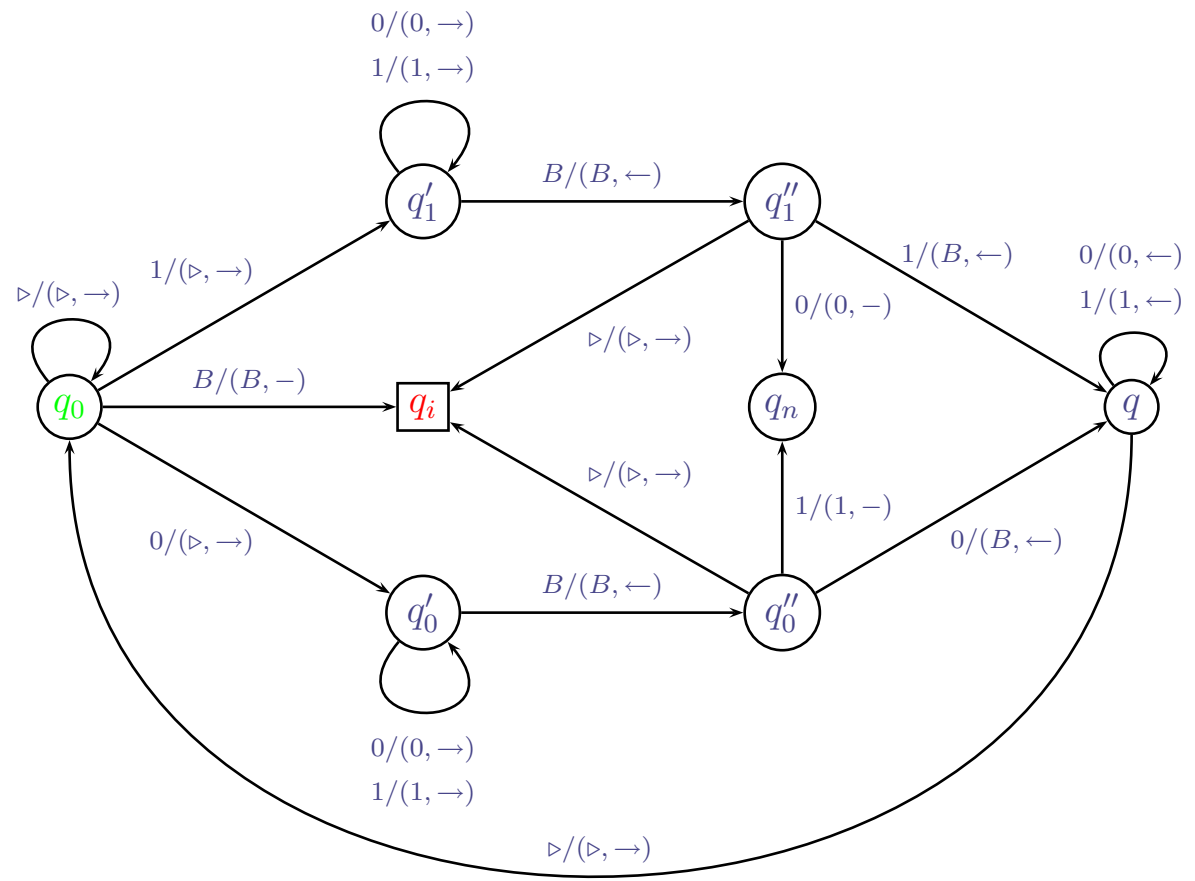
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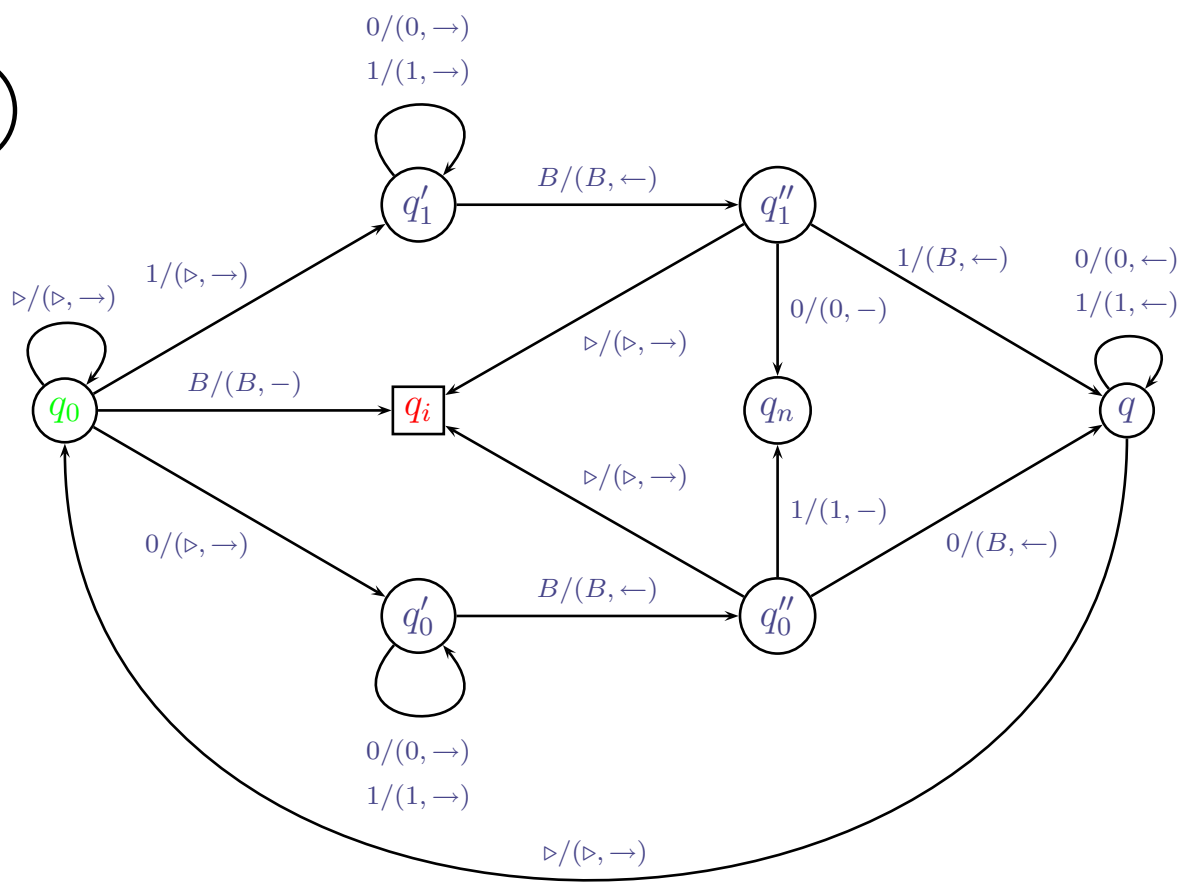
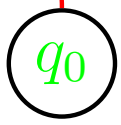
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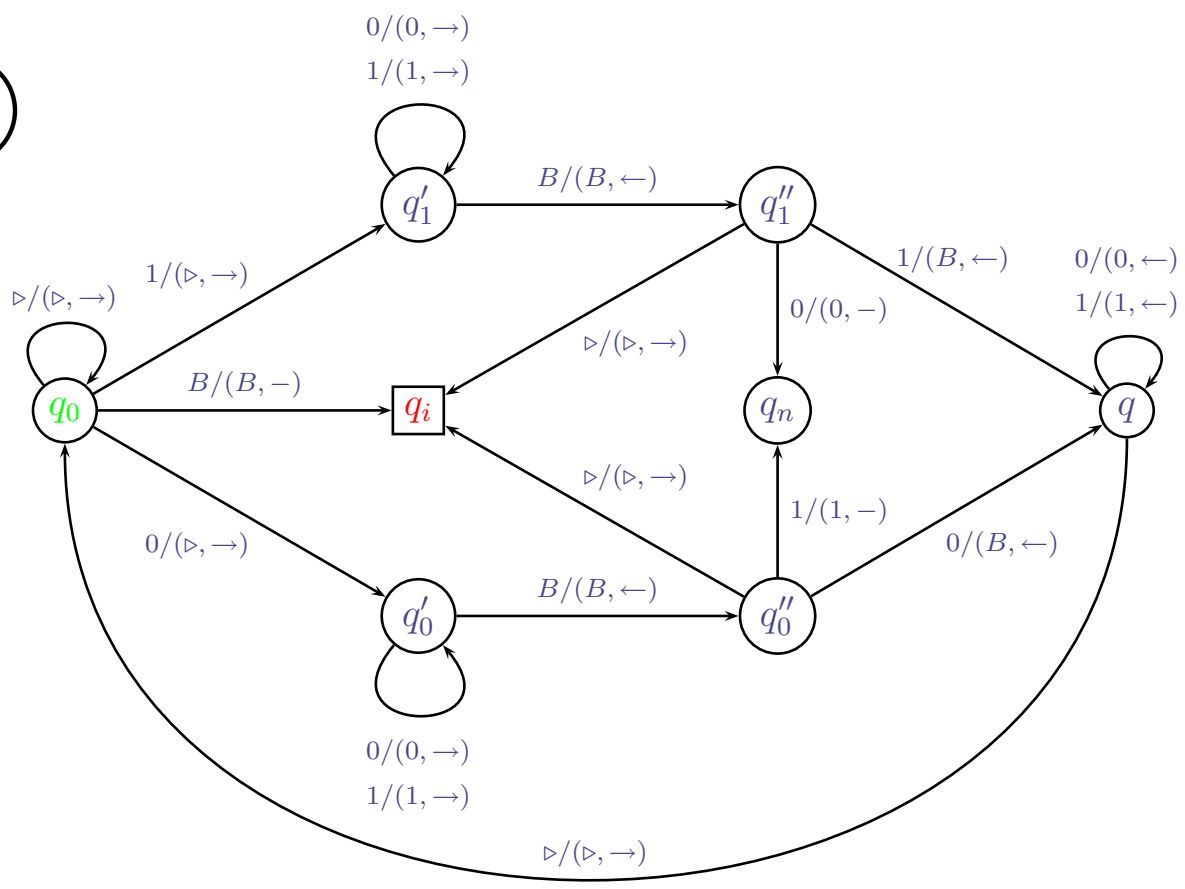
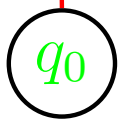
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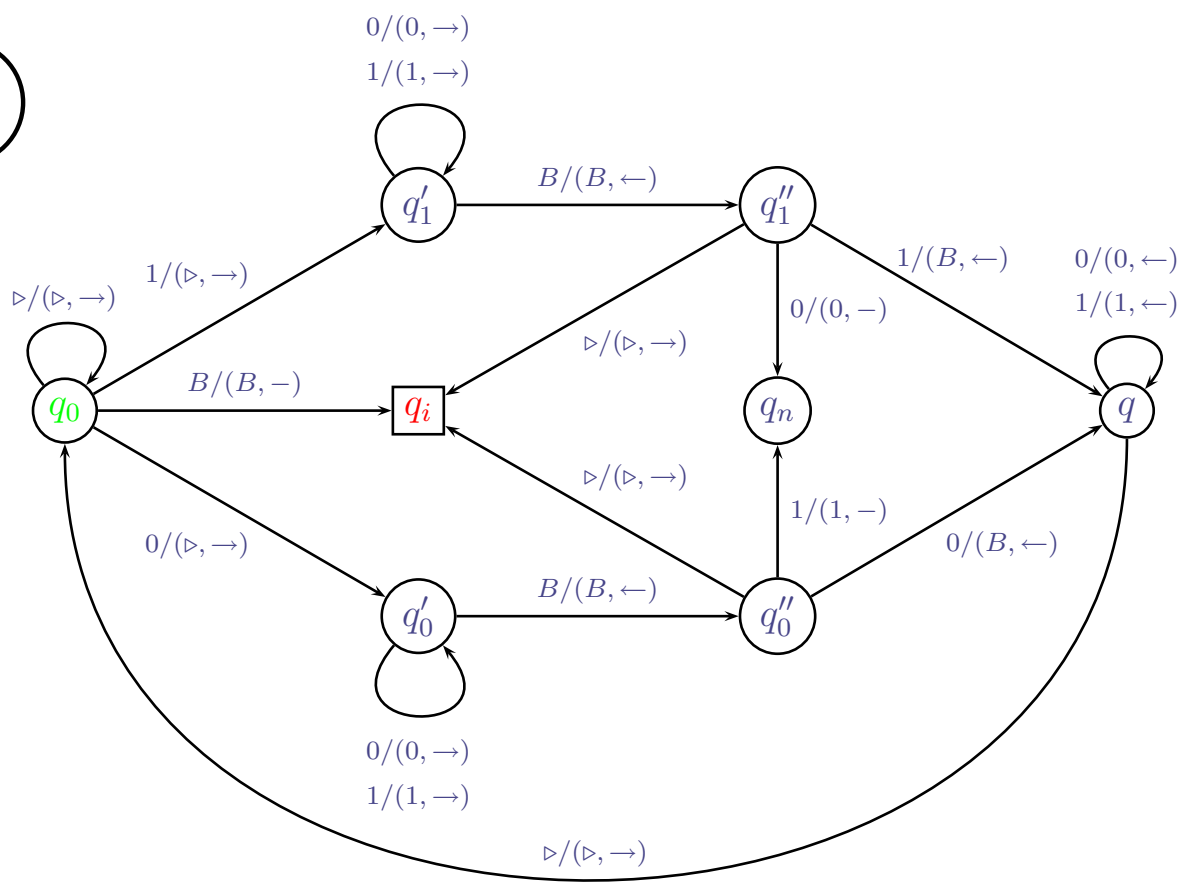
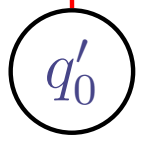
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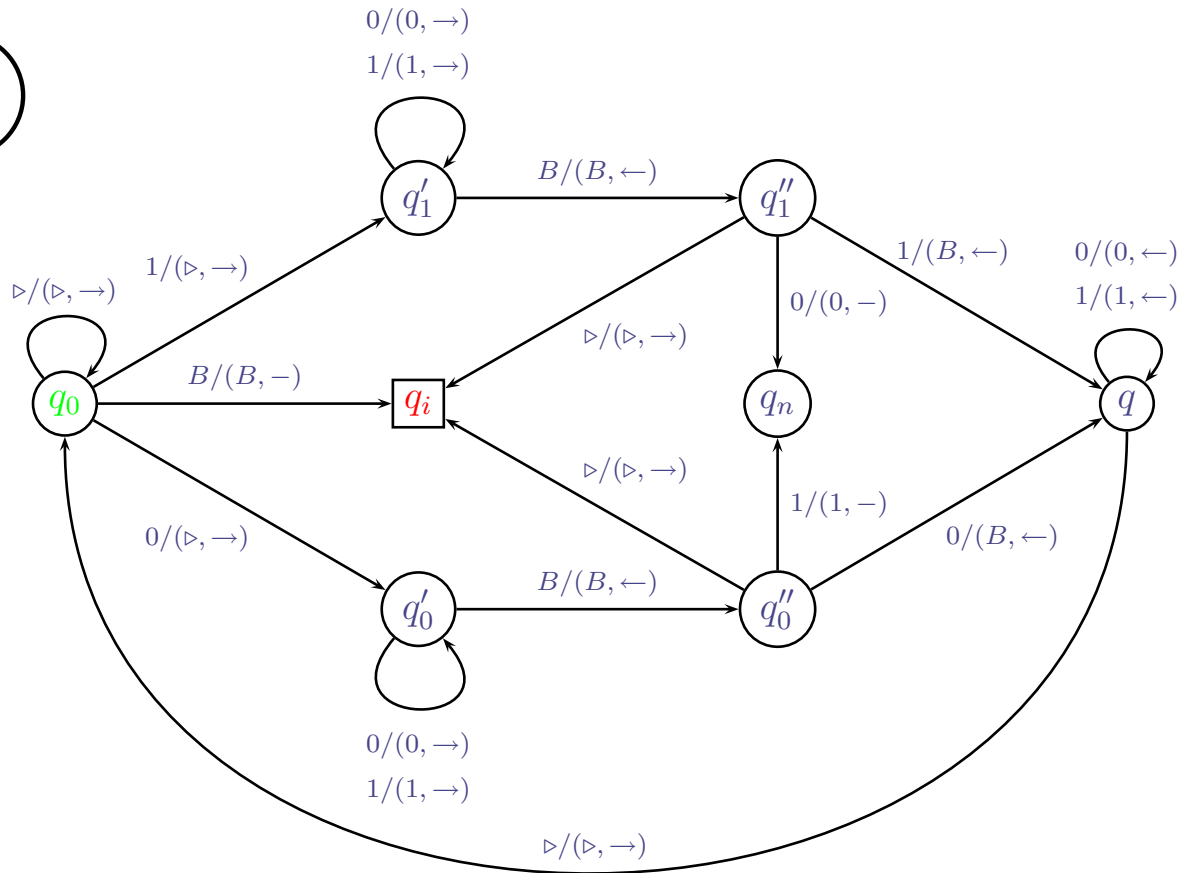
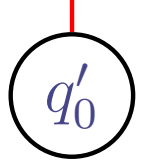
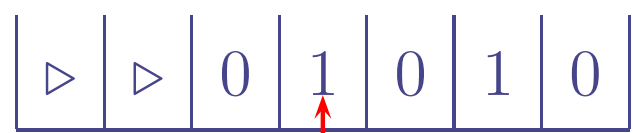
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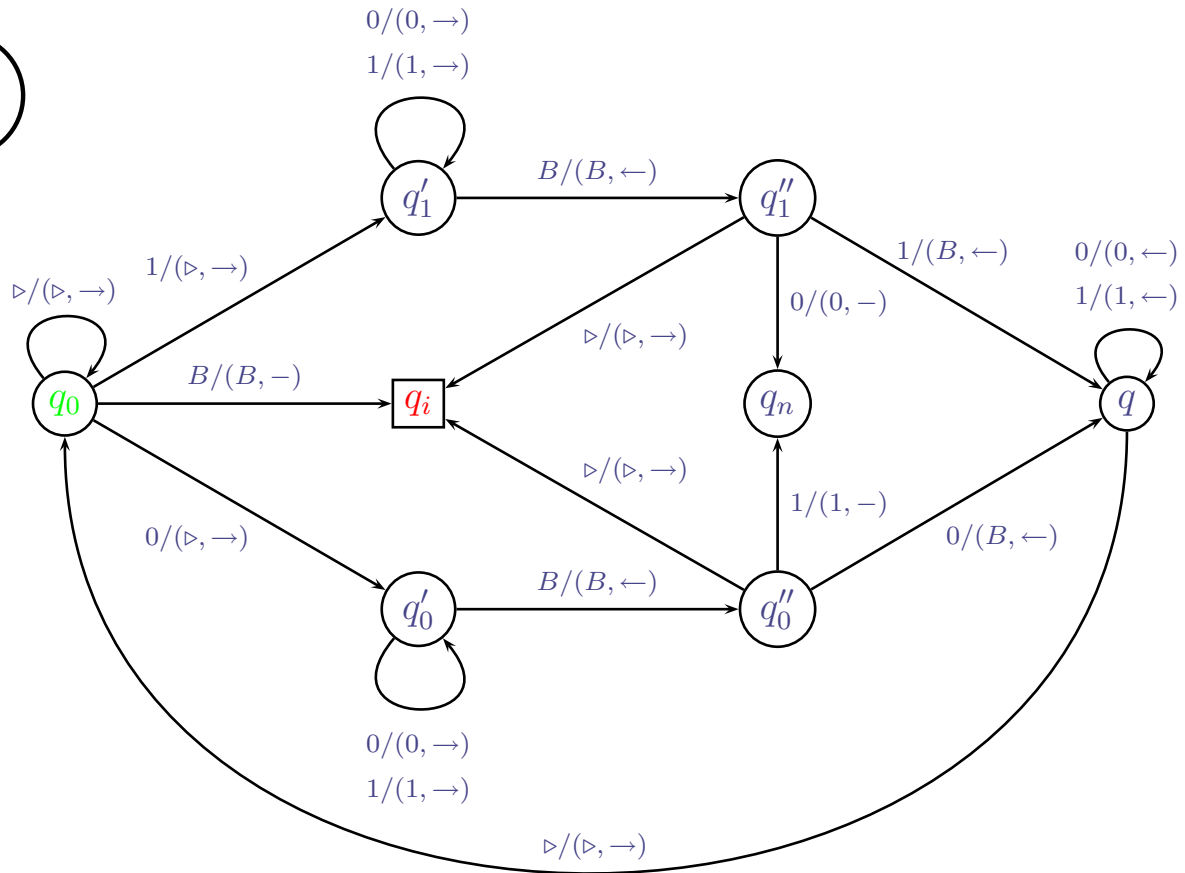
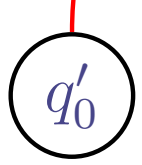
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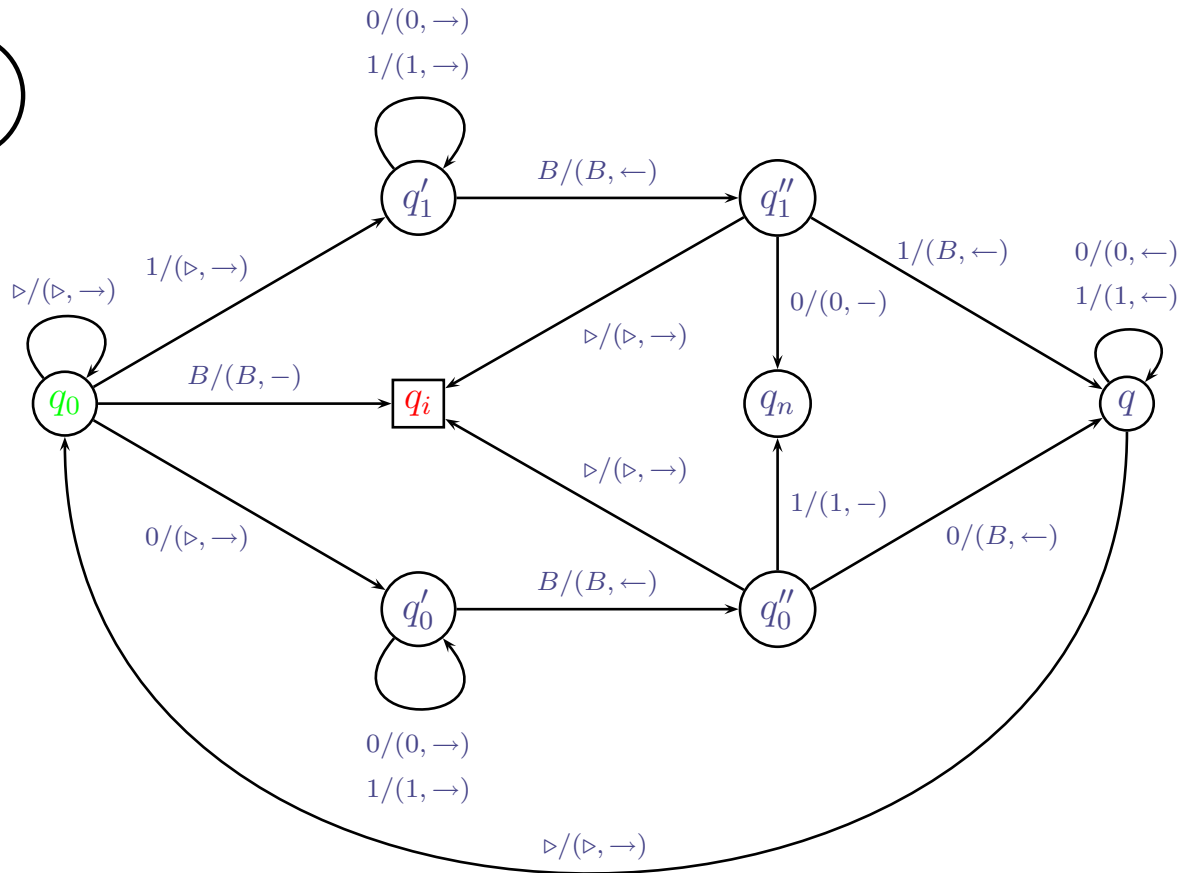
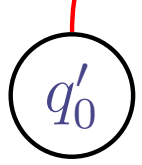


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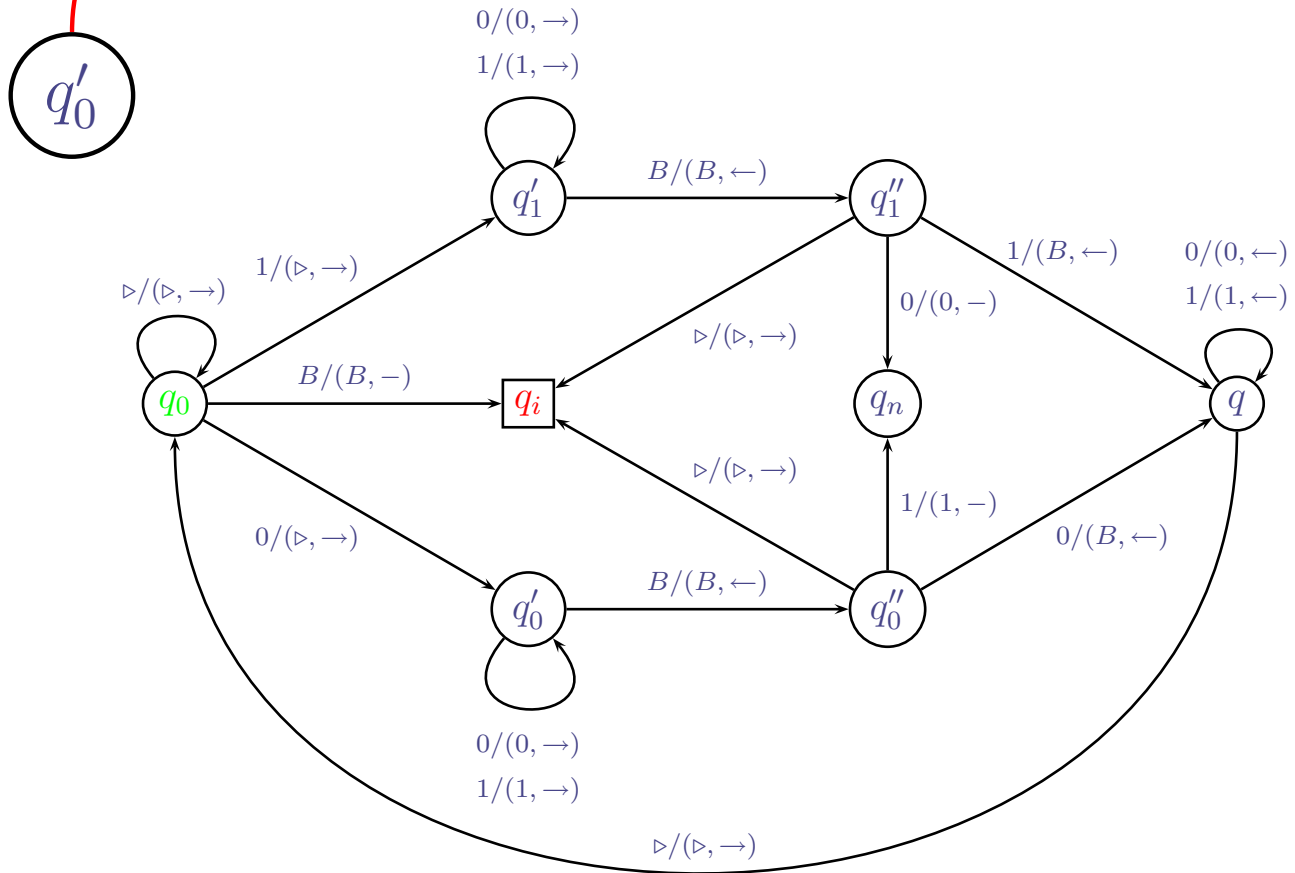




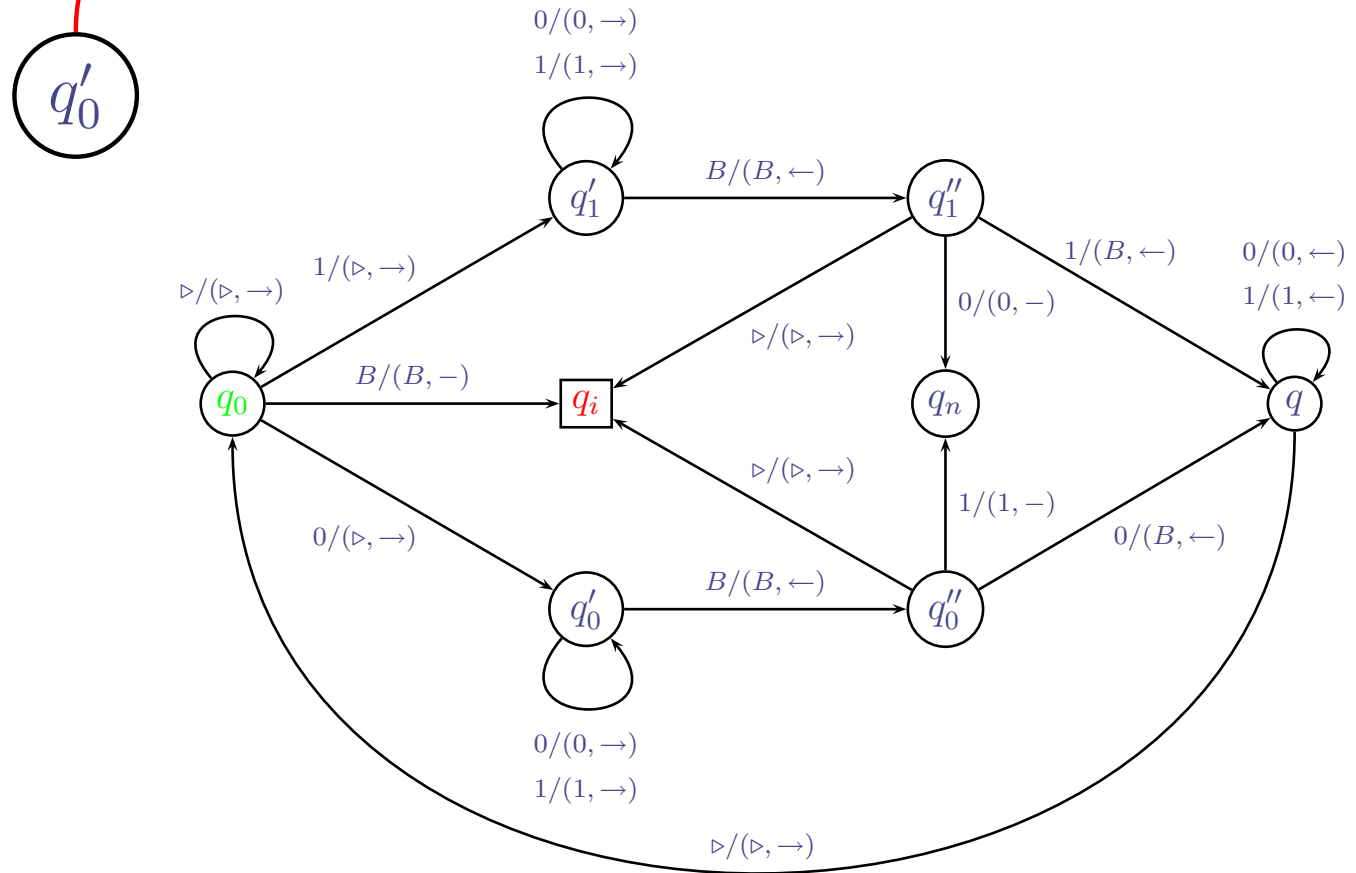
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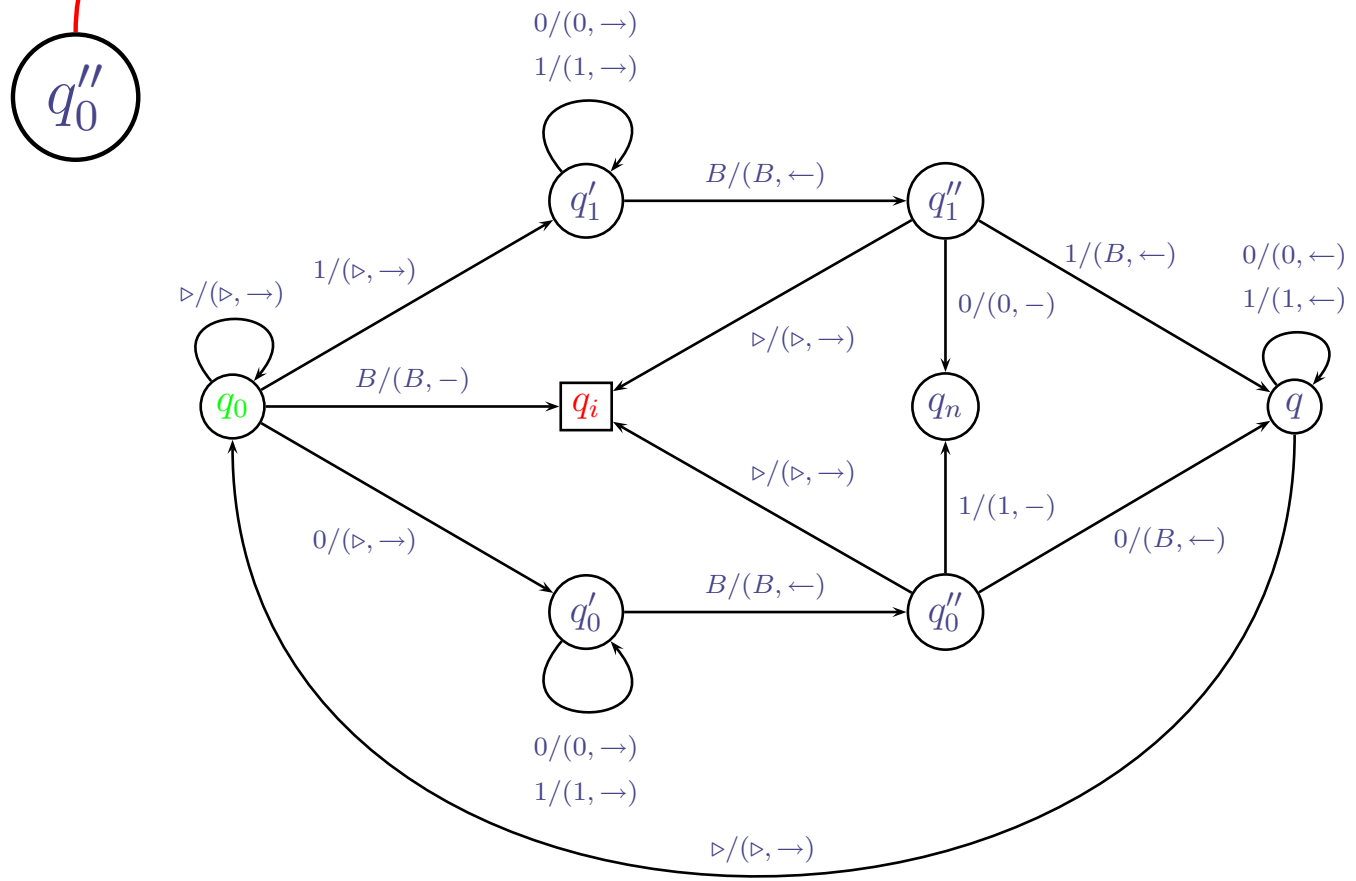
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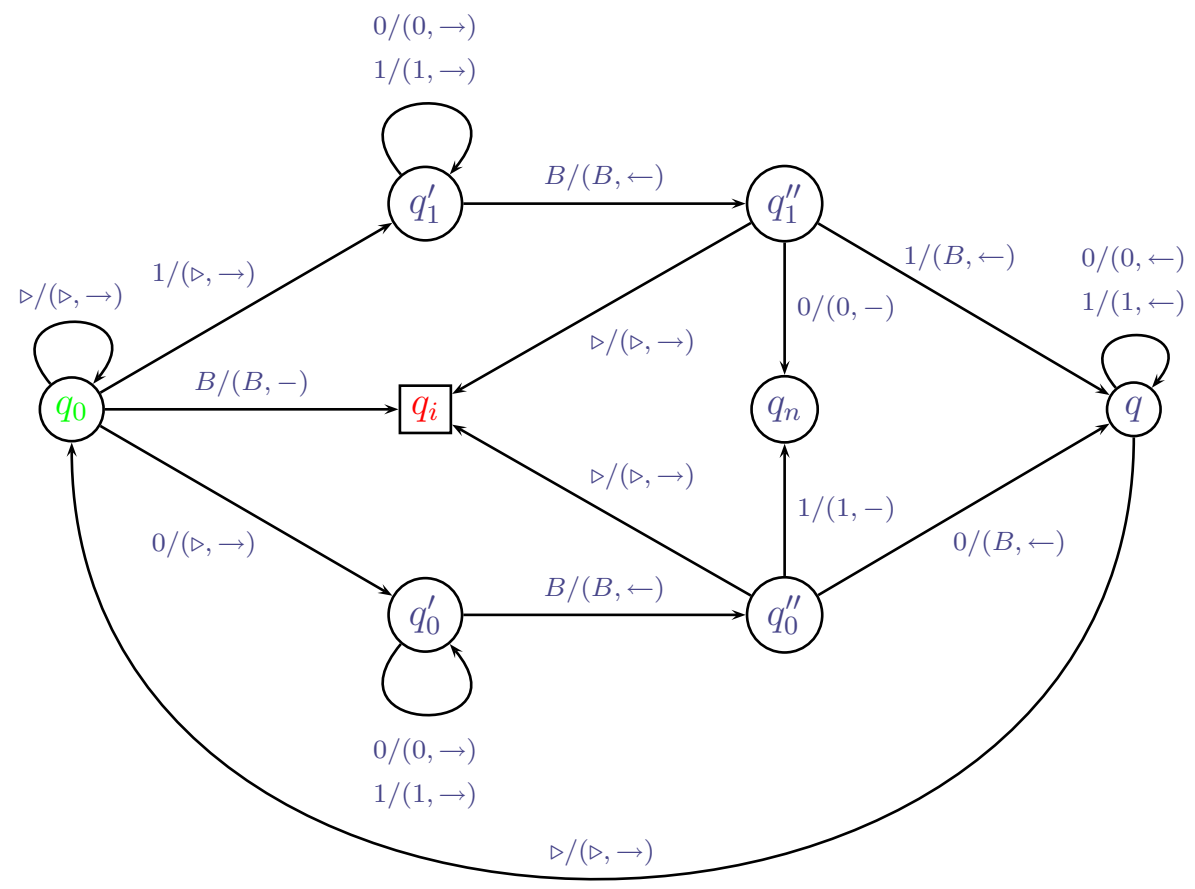
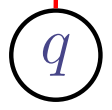
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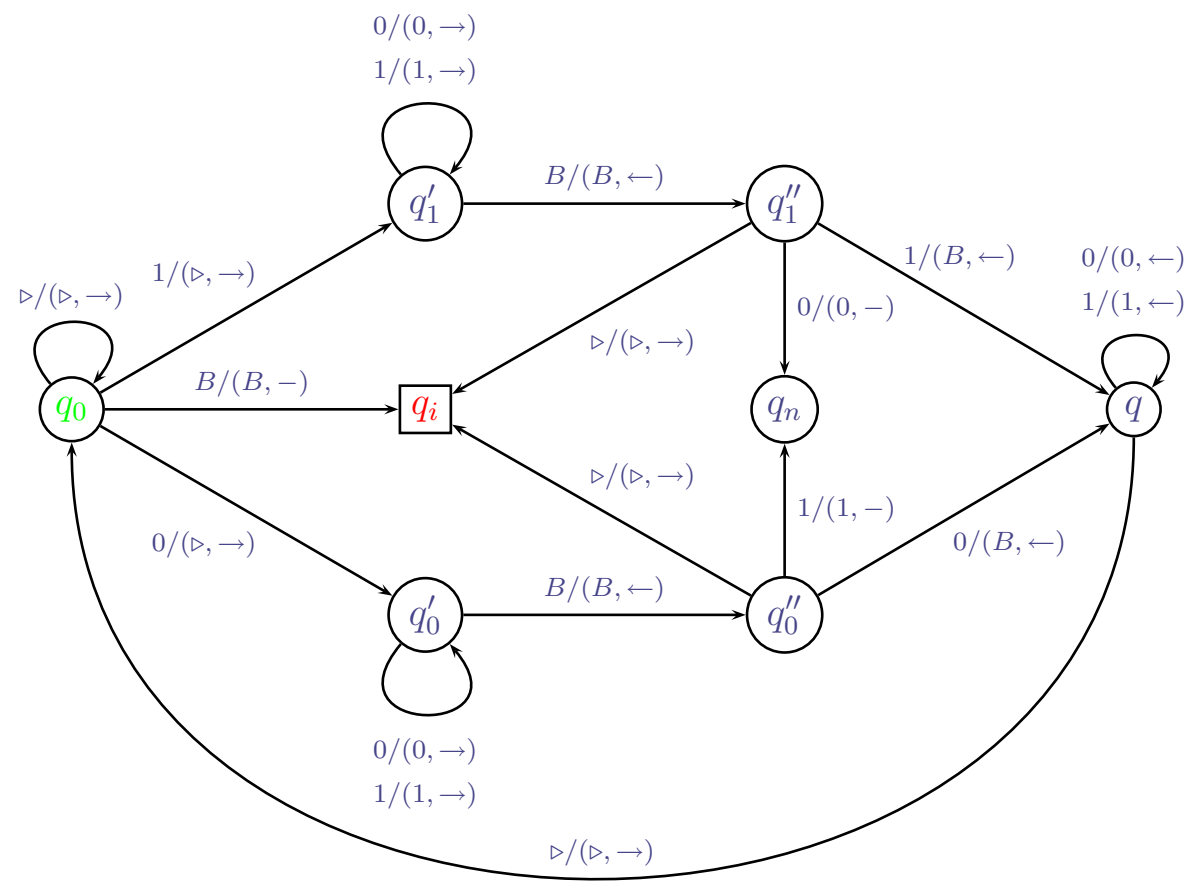
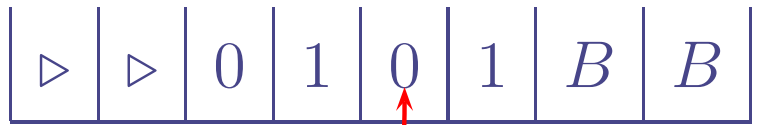
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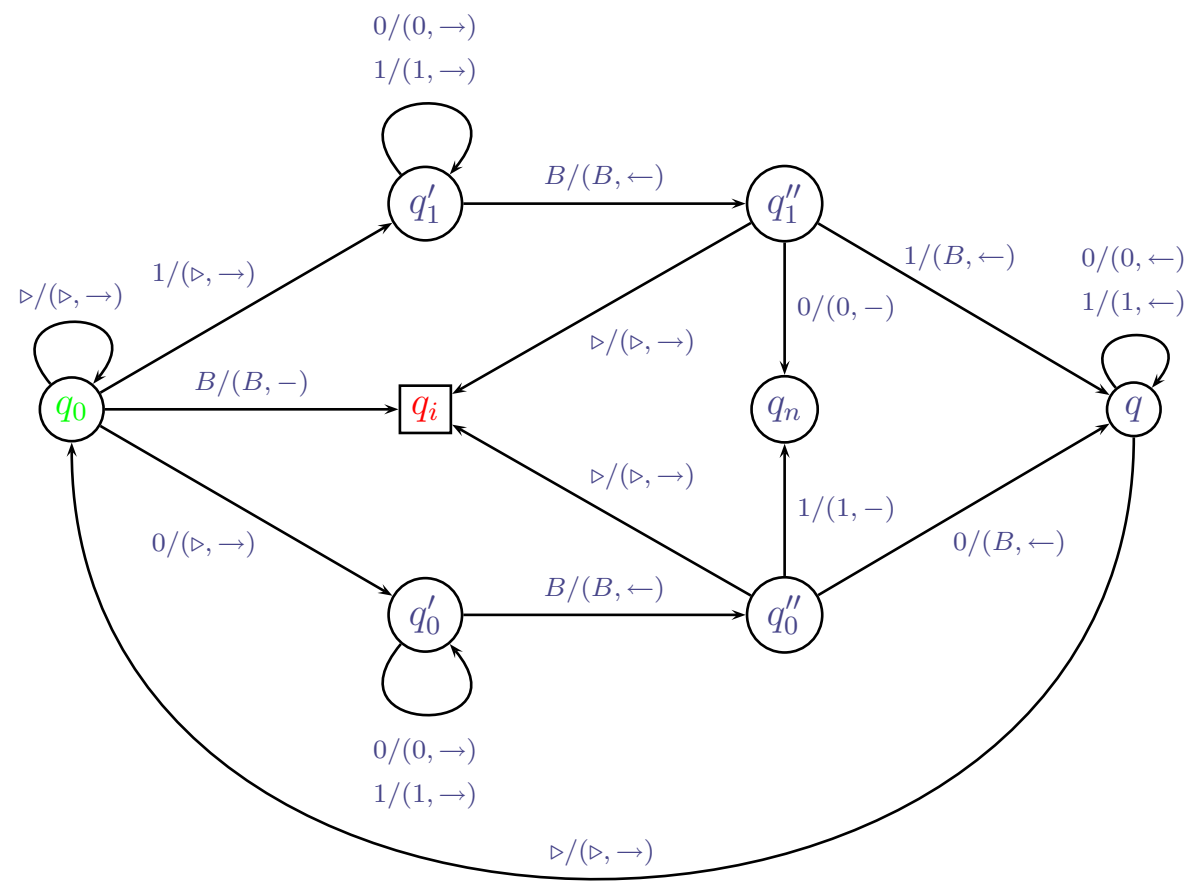
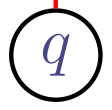
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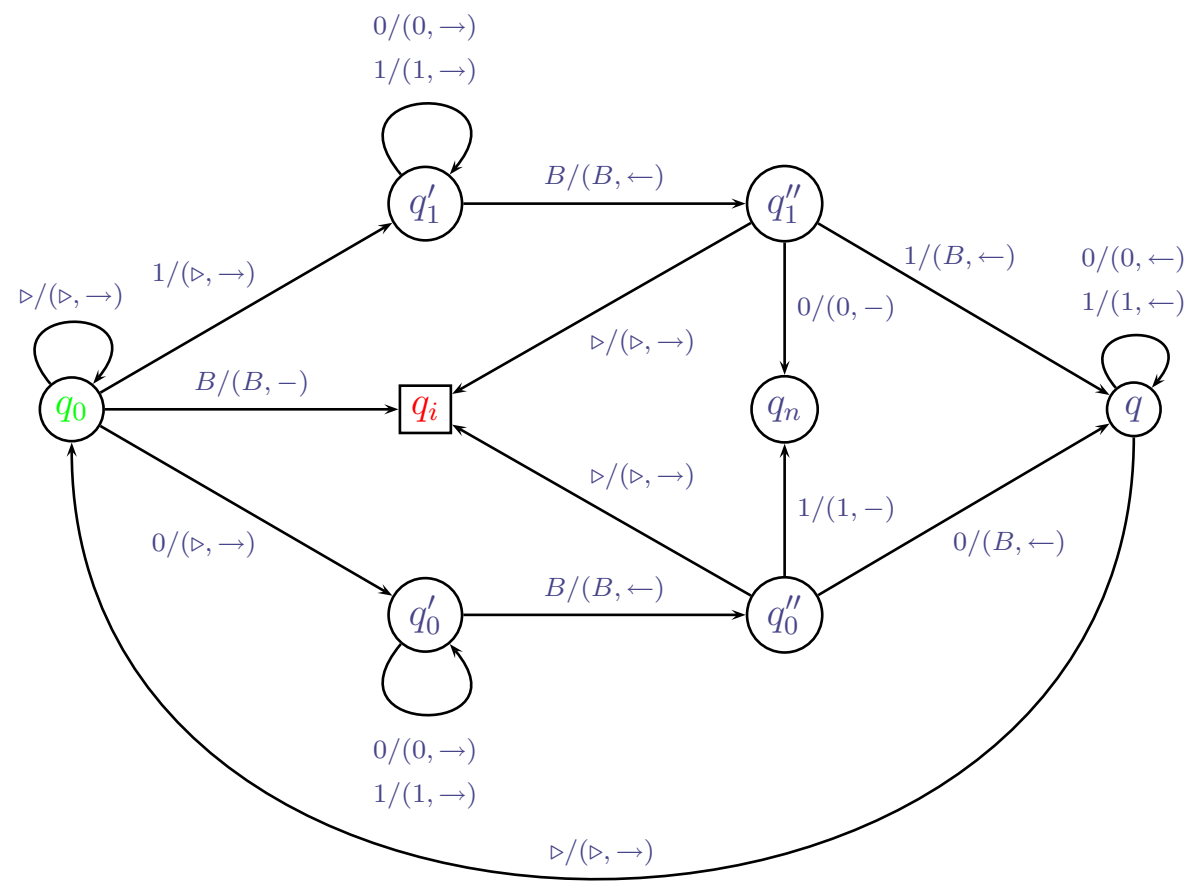
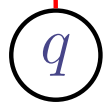
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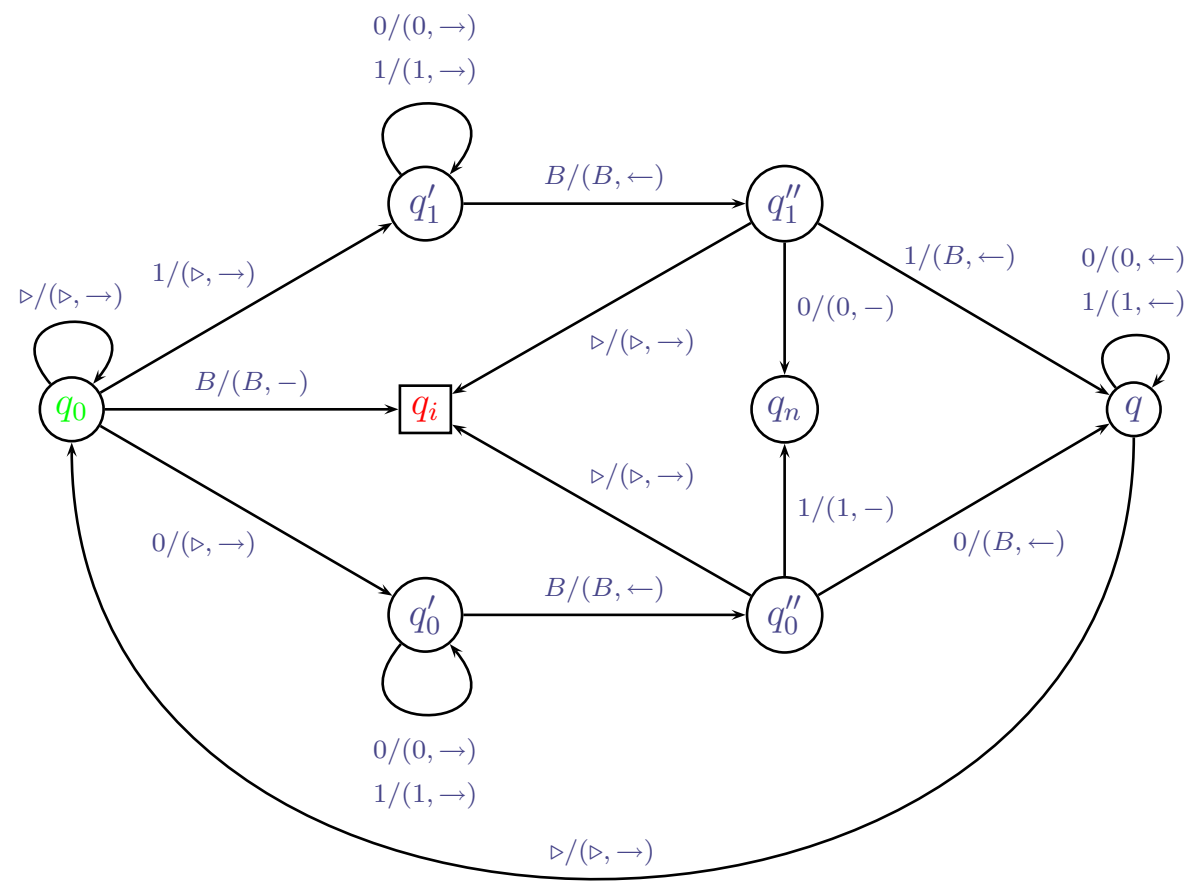
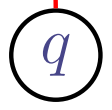


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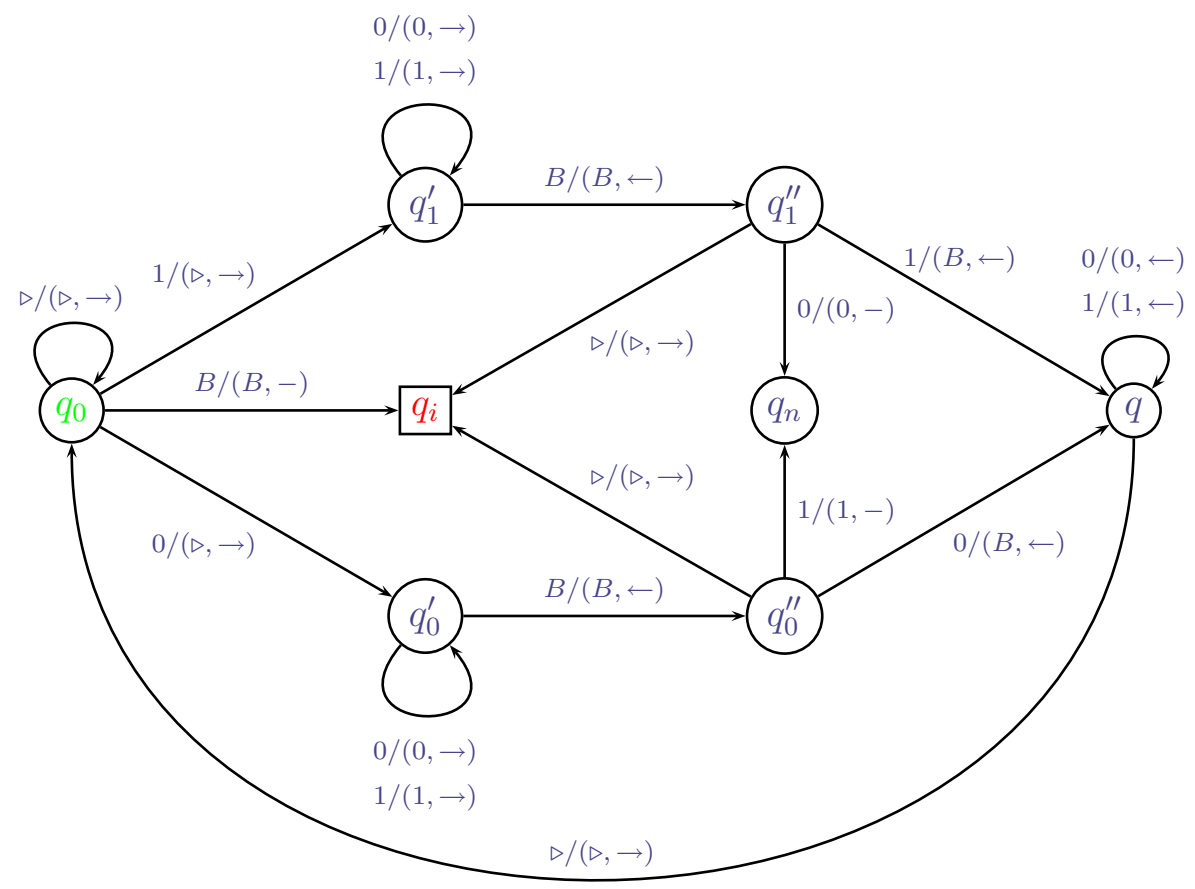
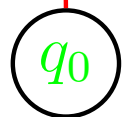




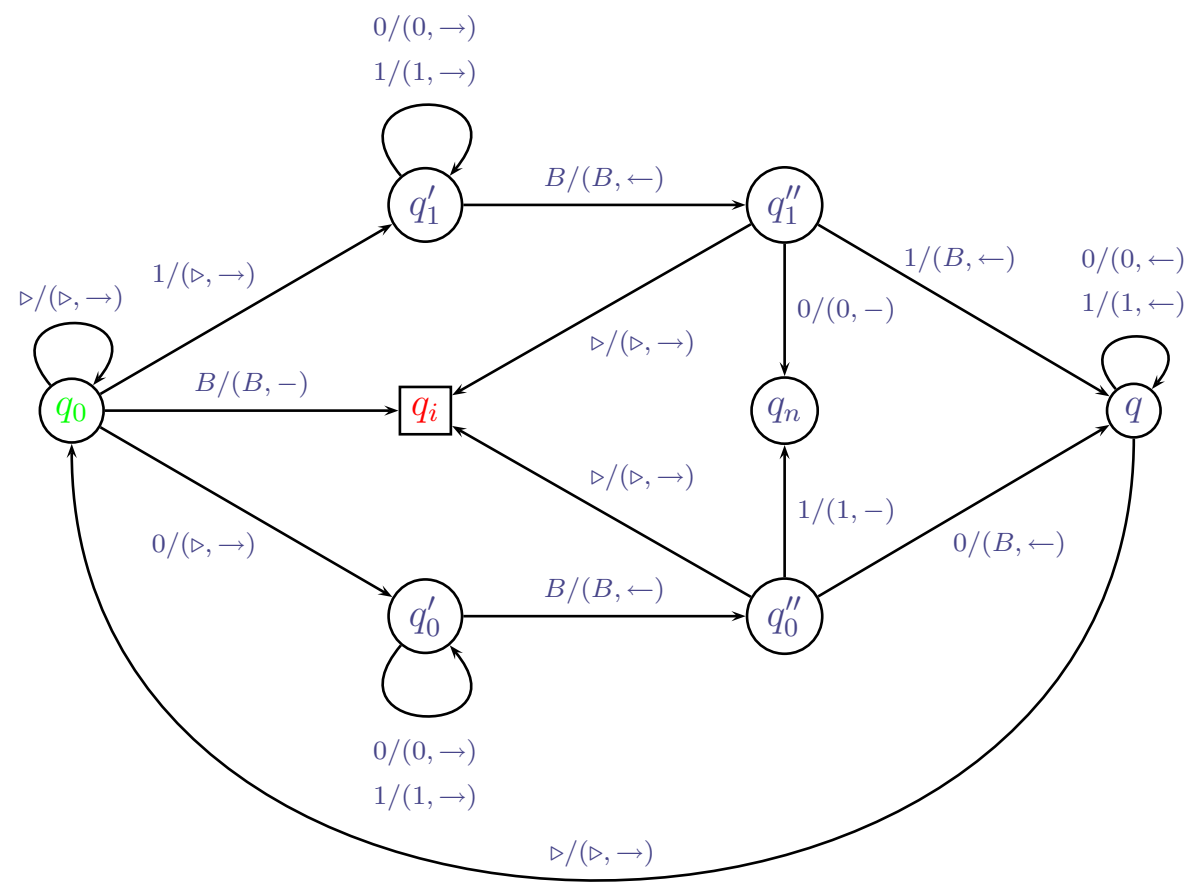
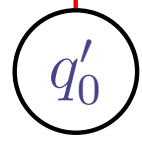
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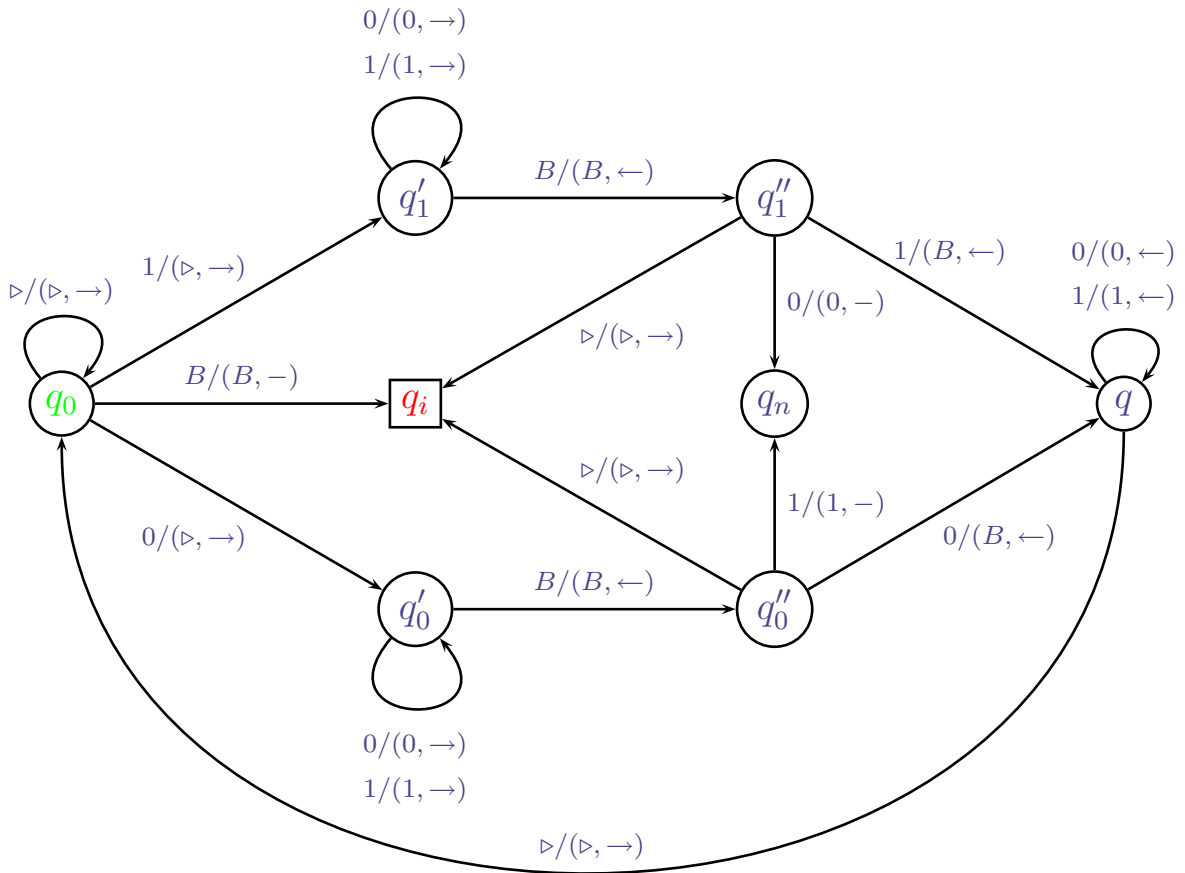
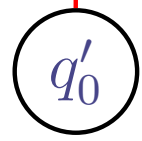
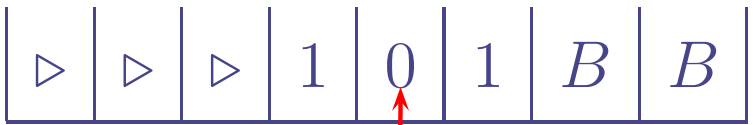
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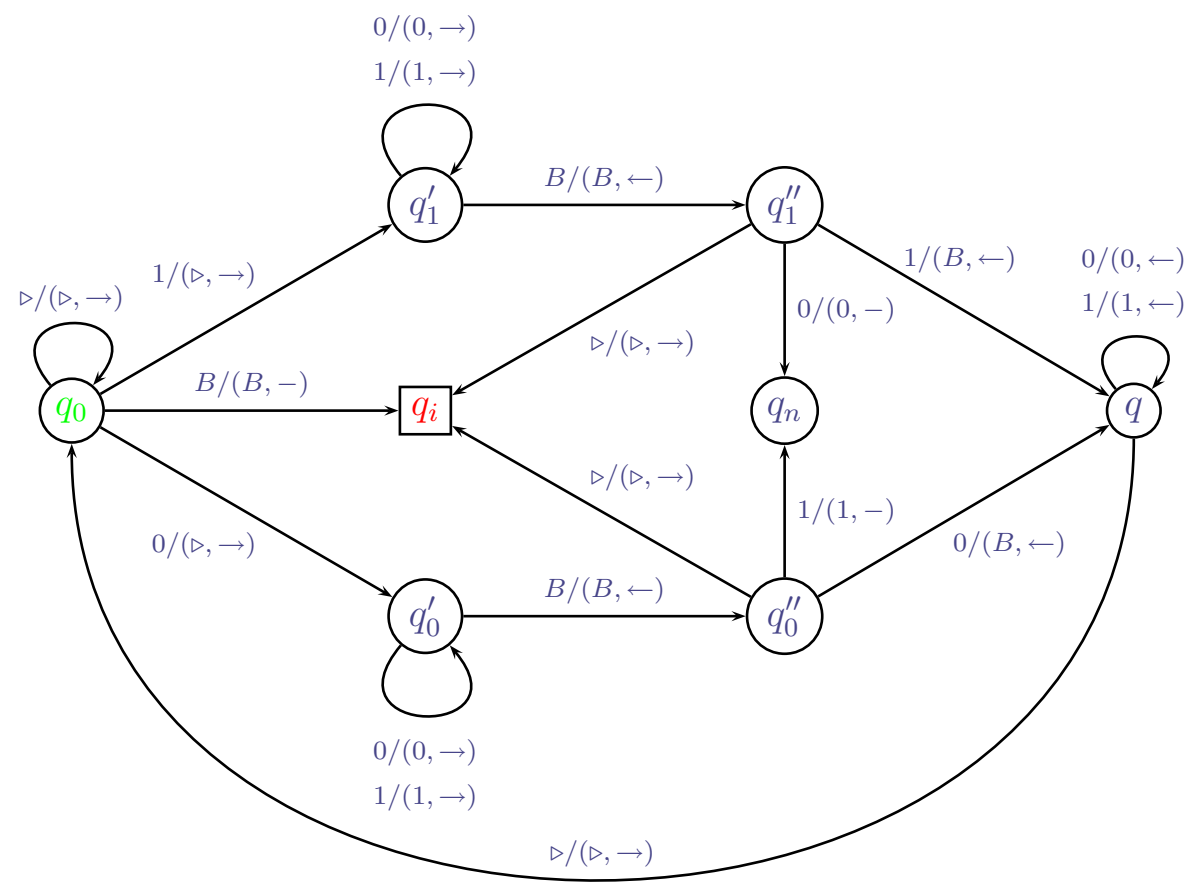
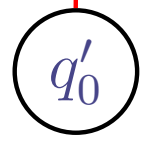
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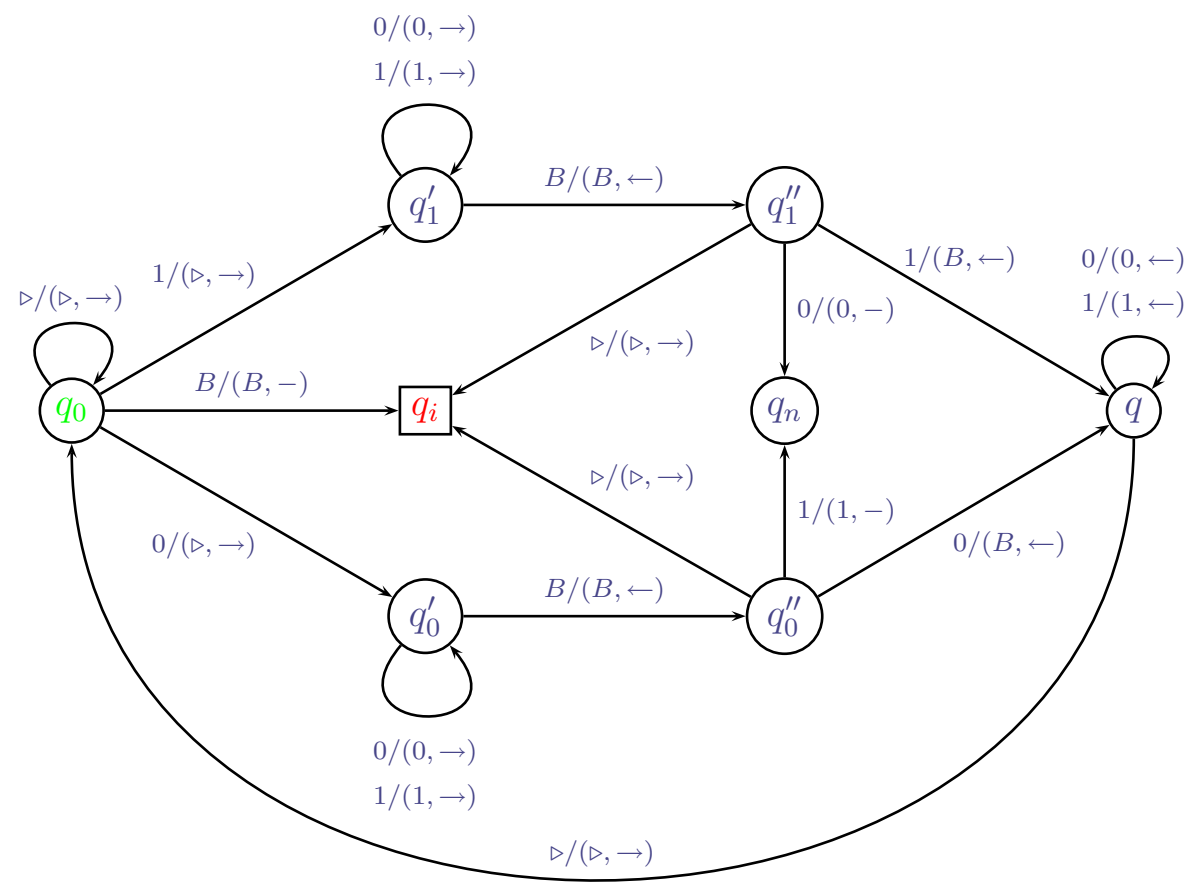
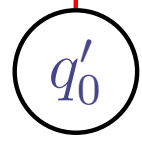
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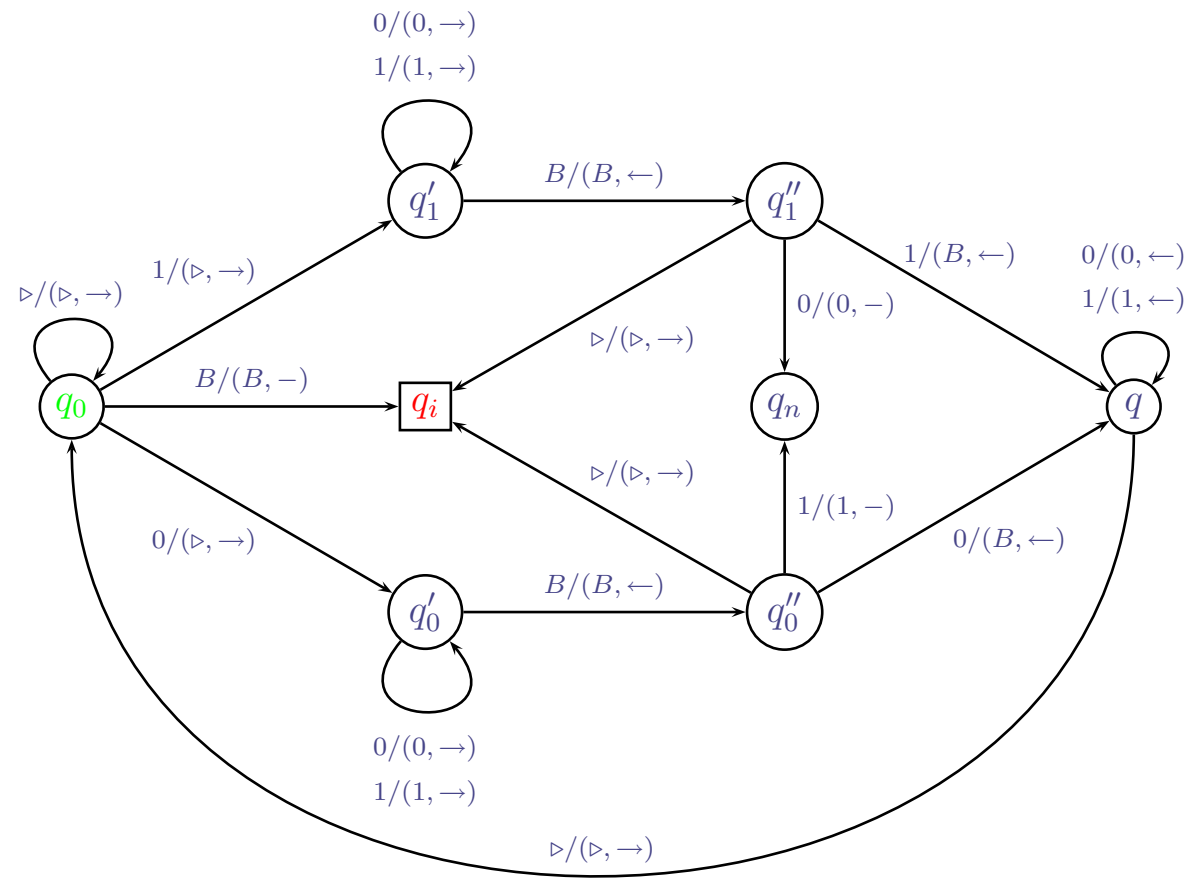
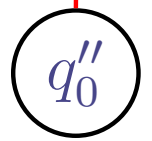
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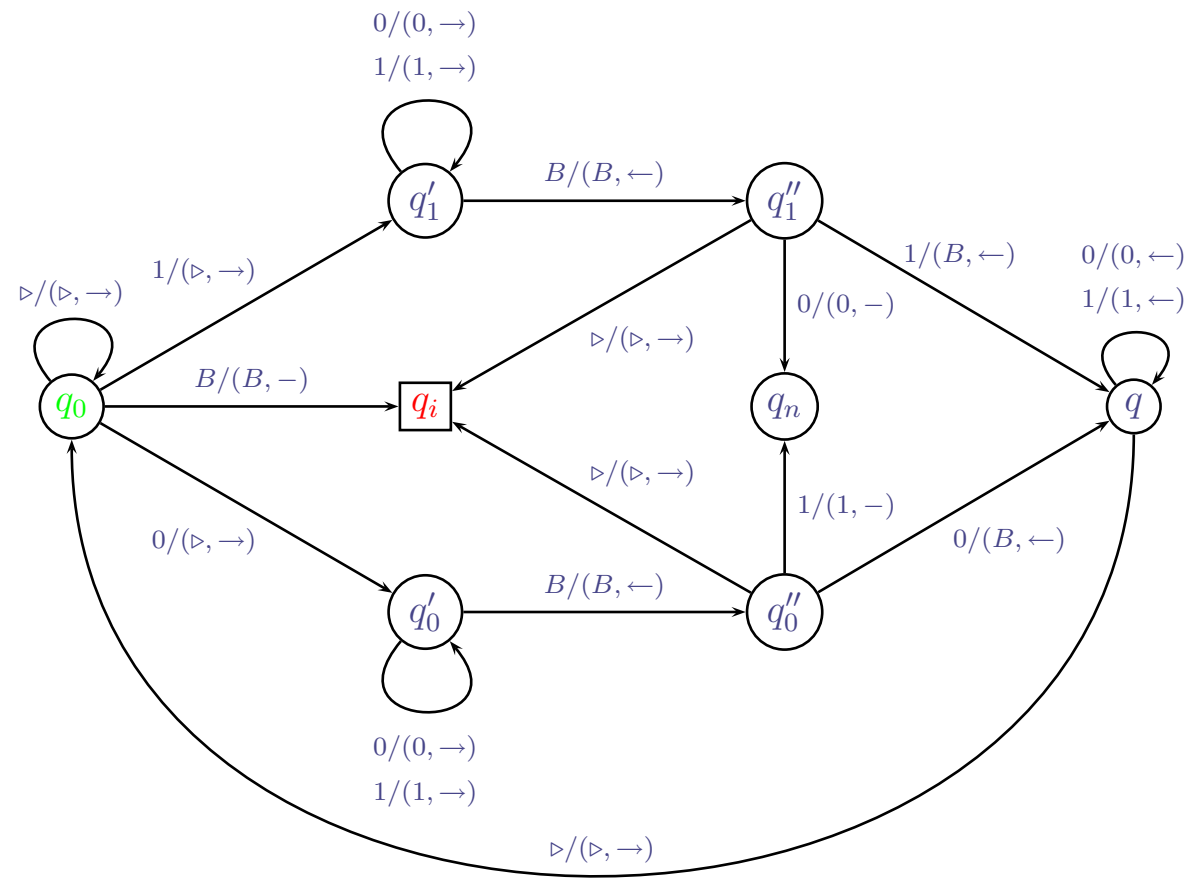
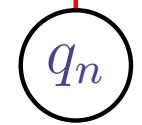
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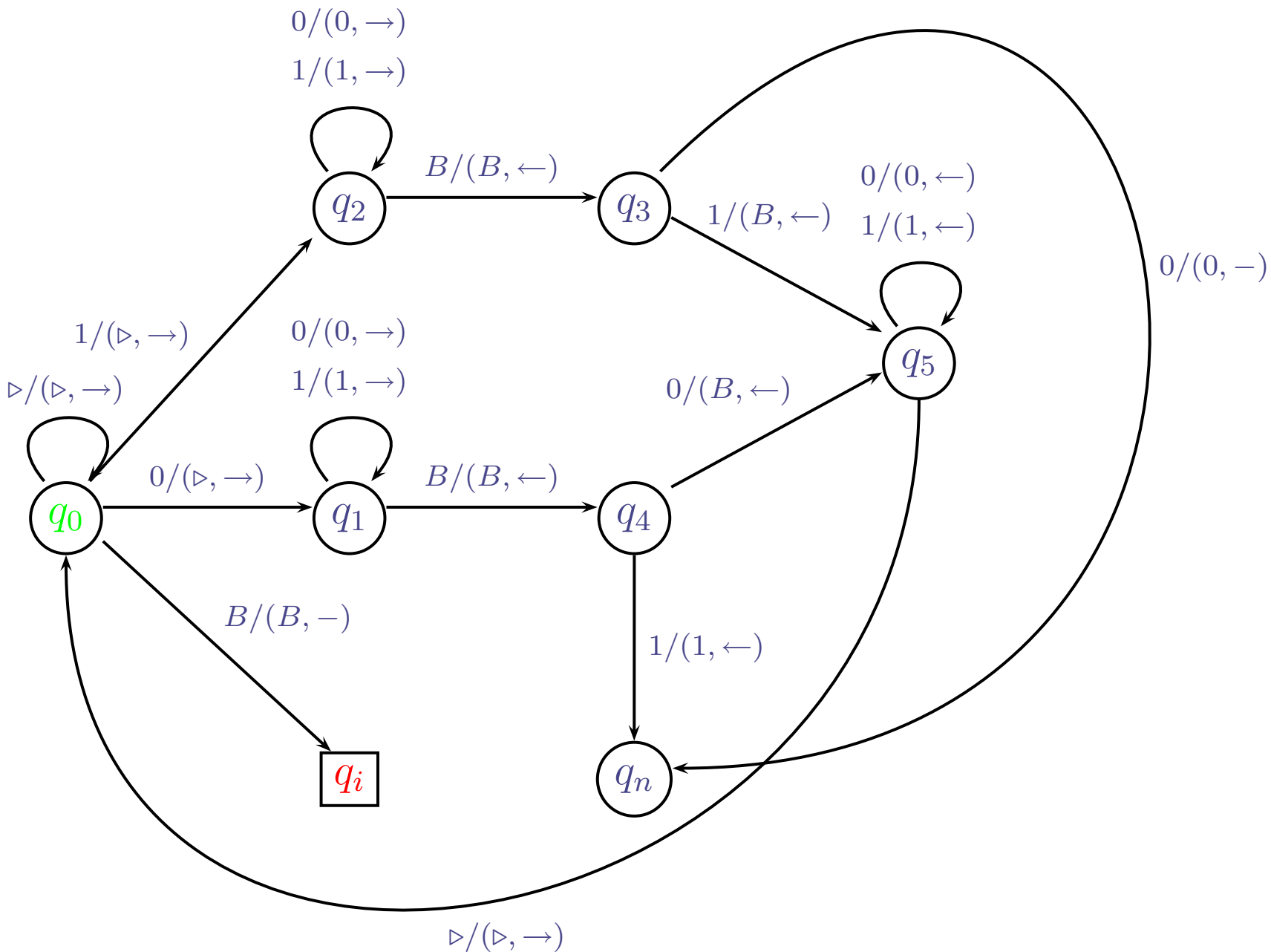


# A palindromákat eldöntő Turing-gép

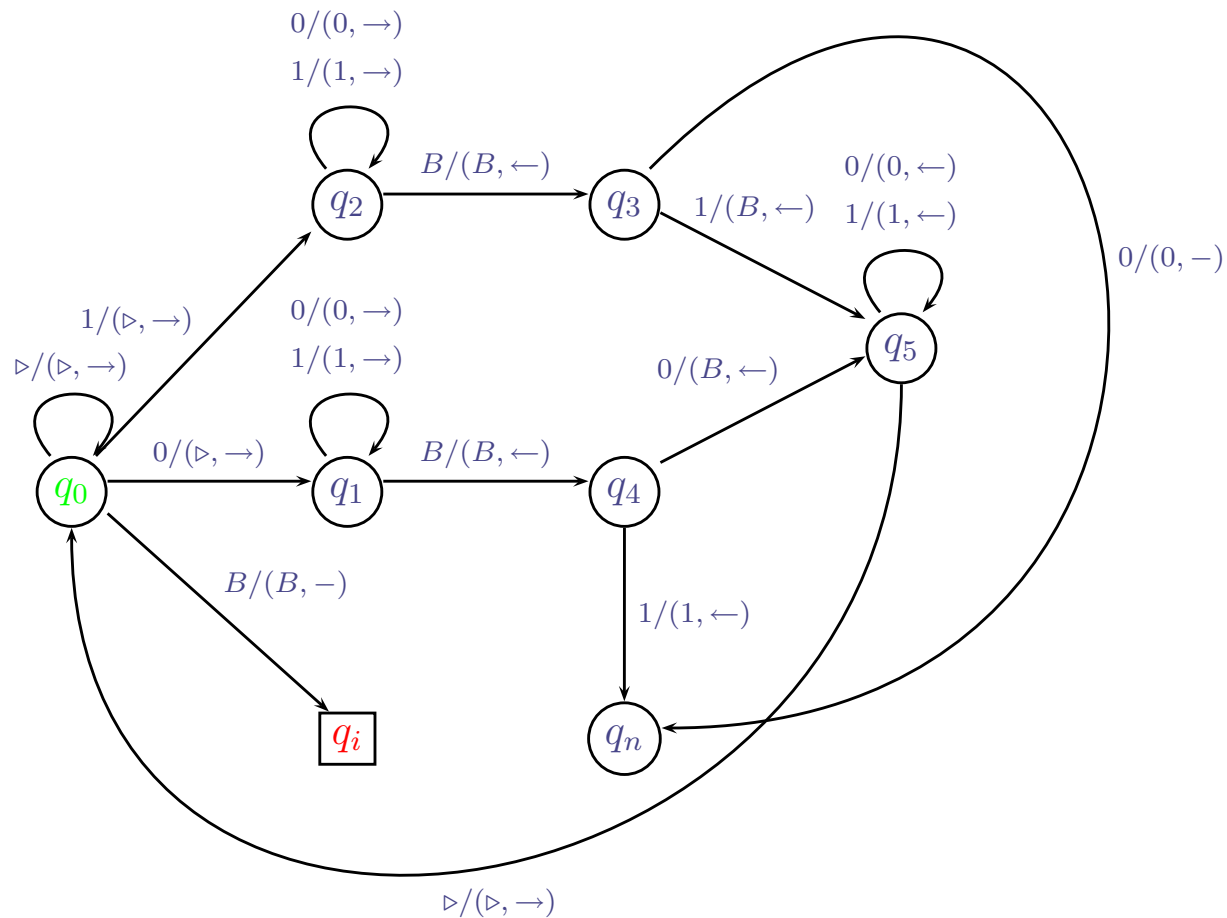
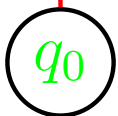




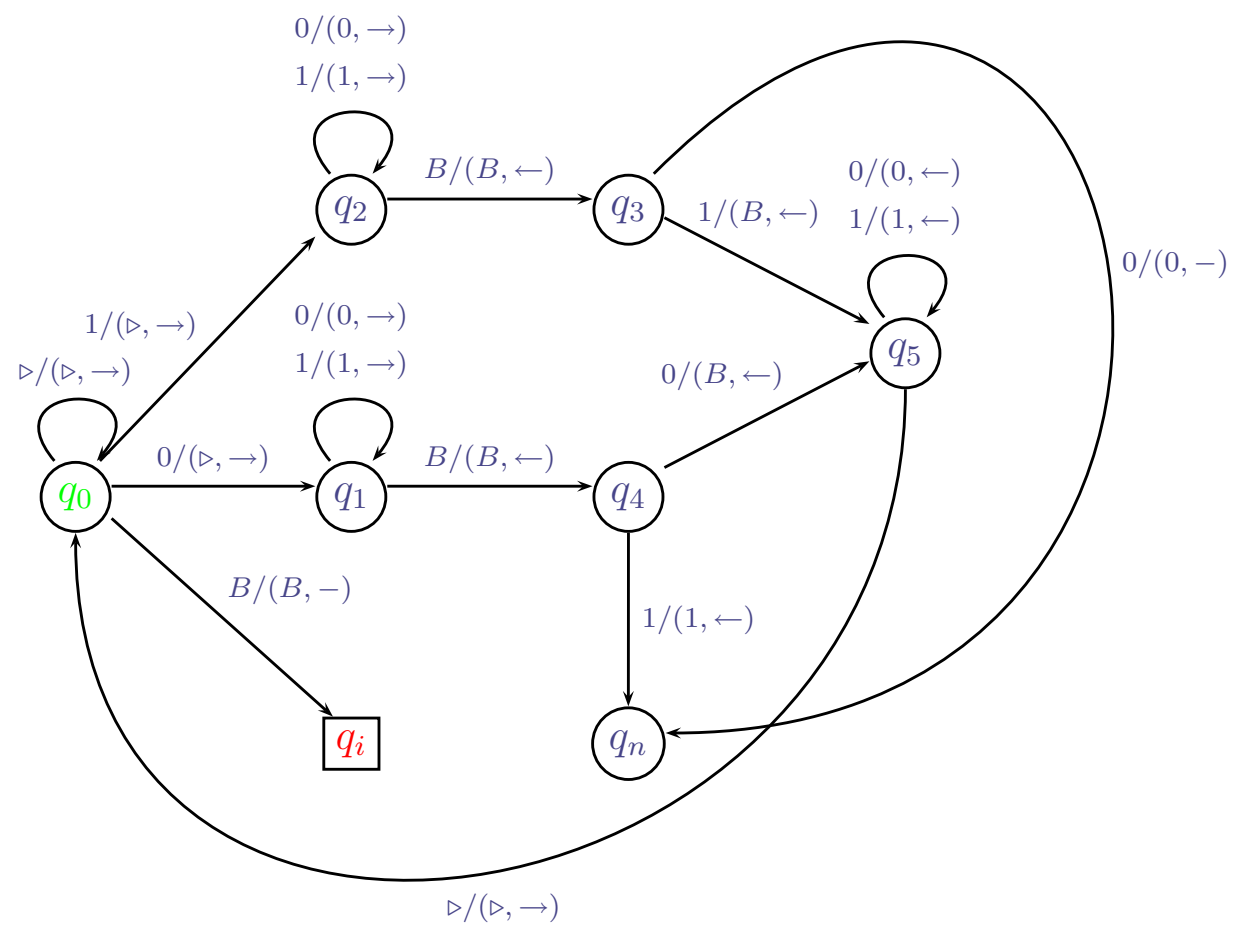
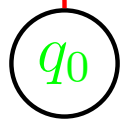
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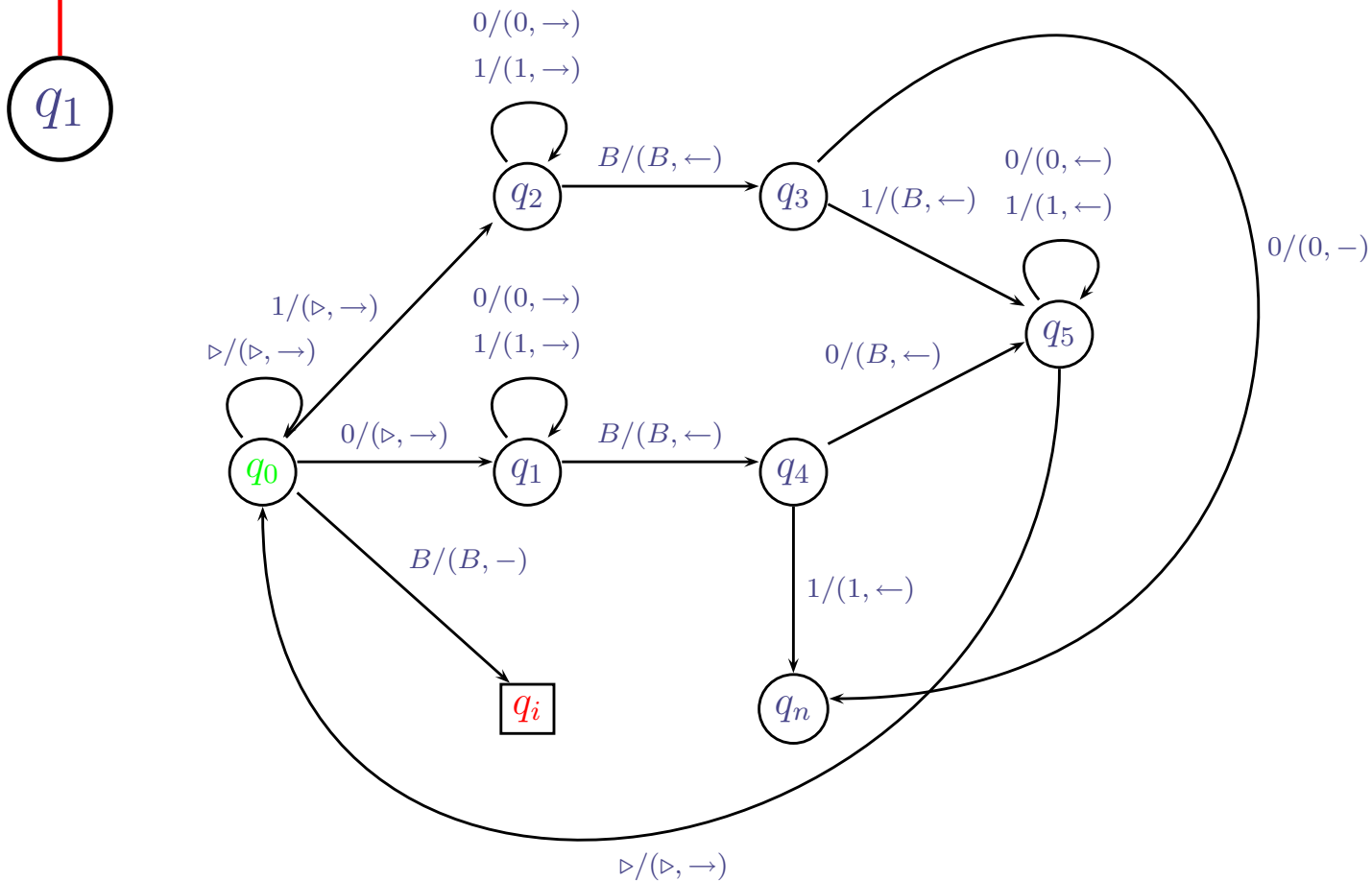
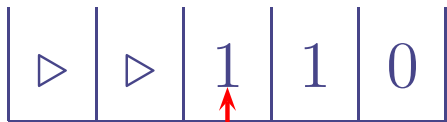
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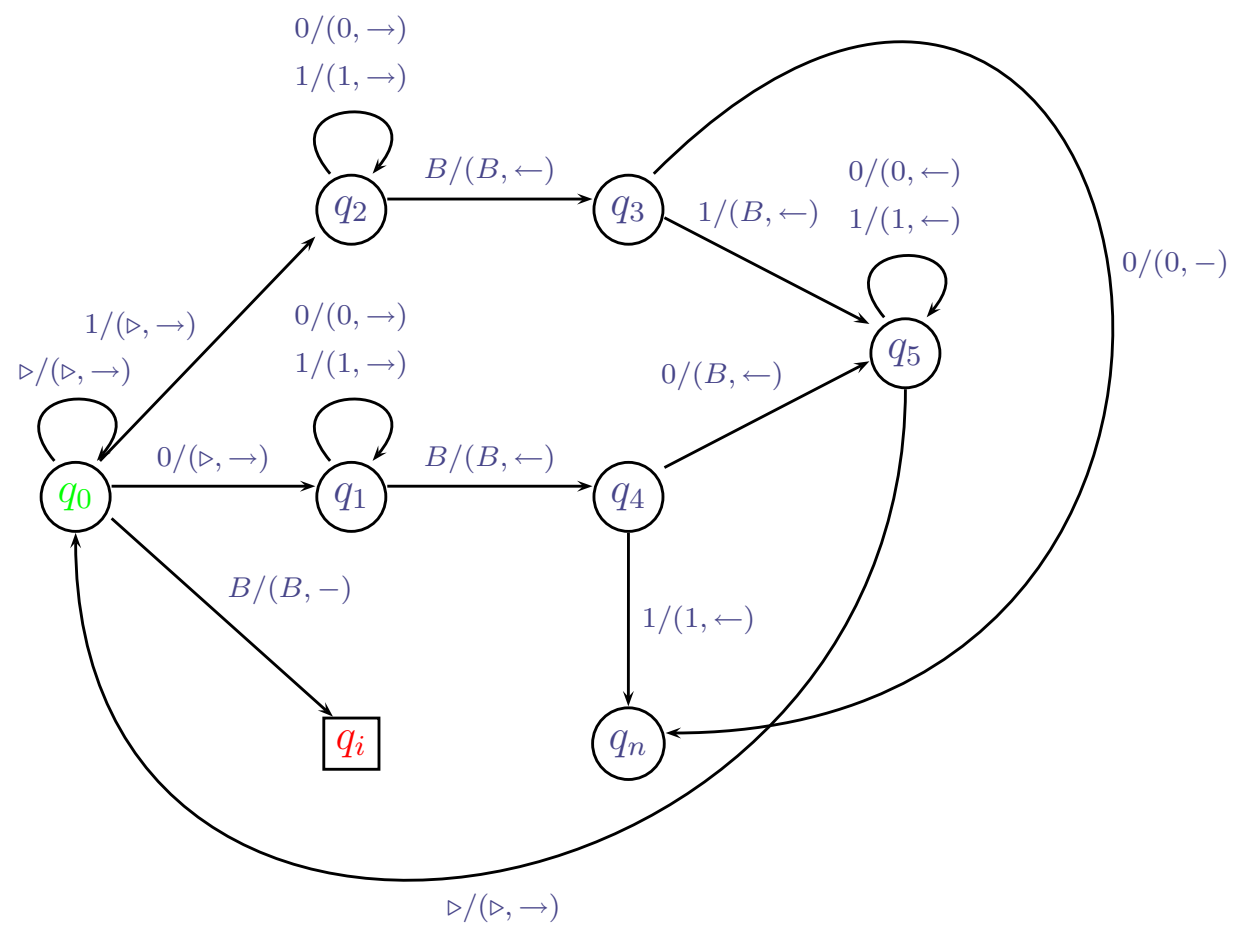
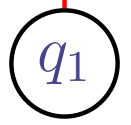
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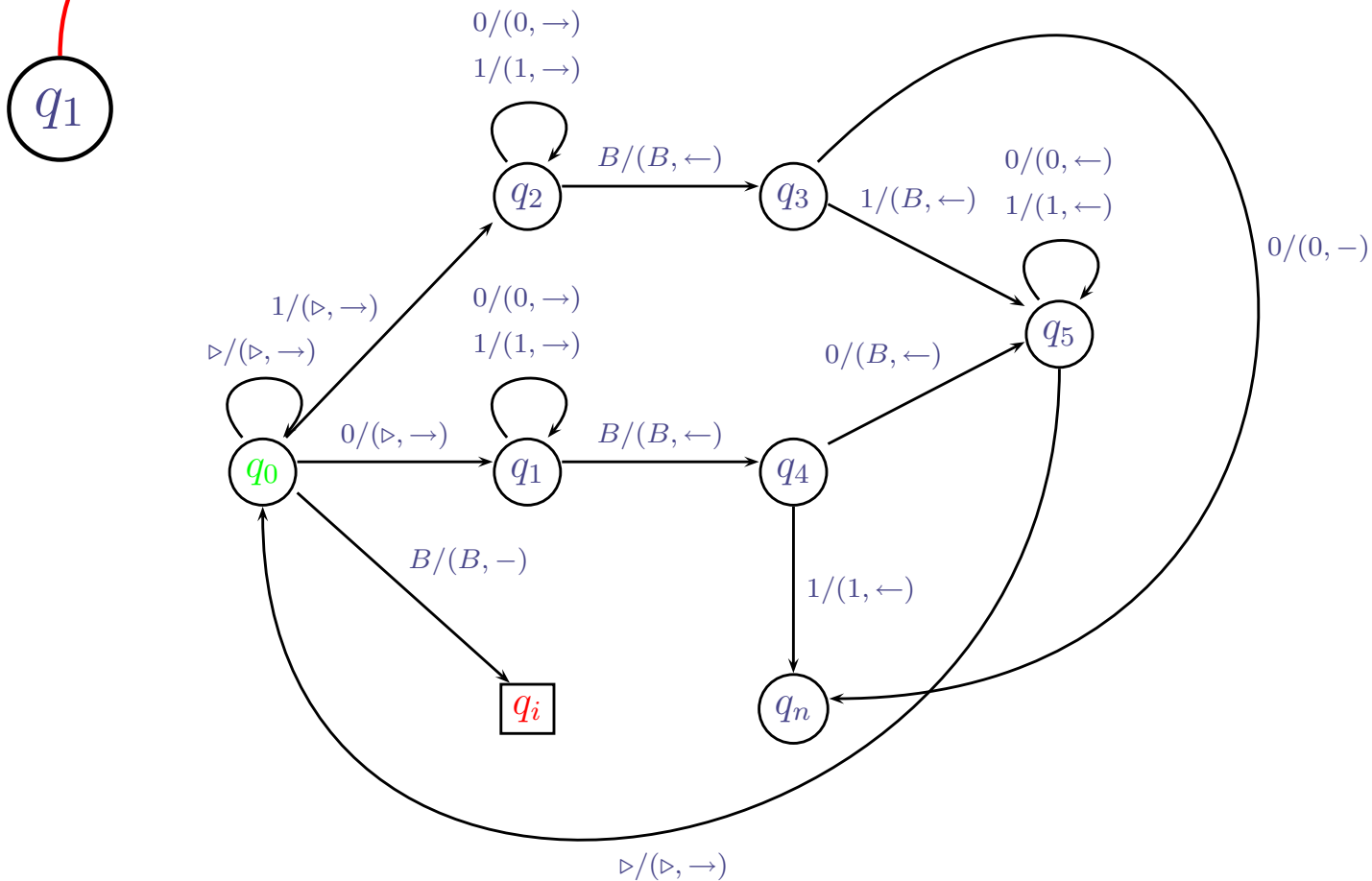
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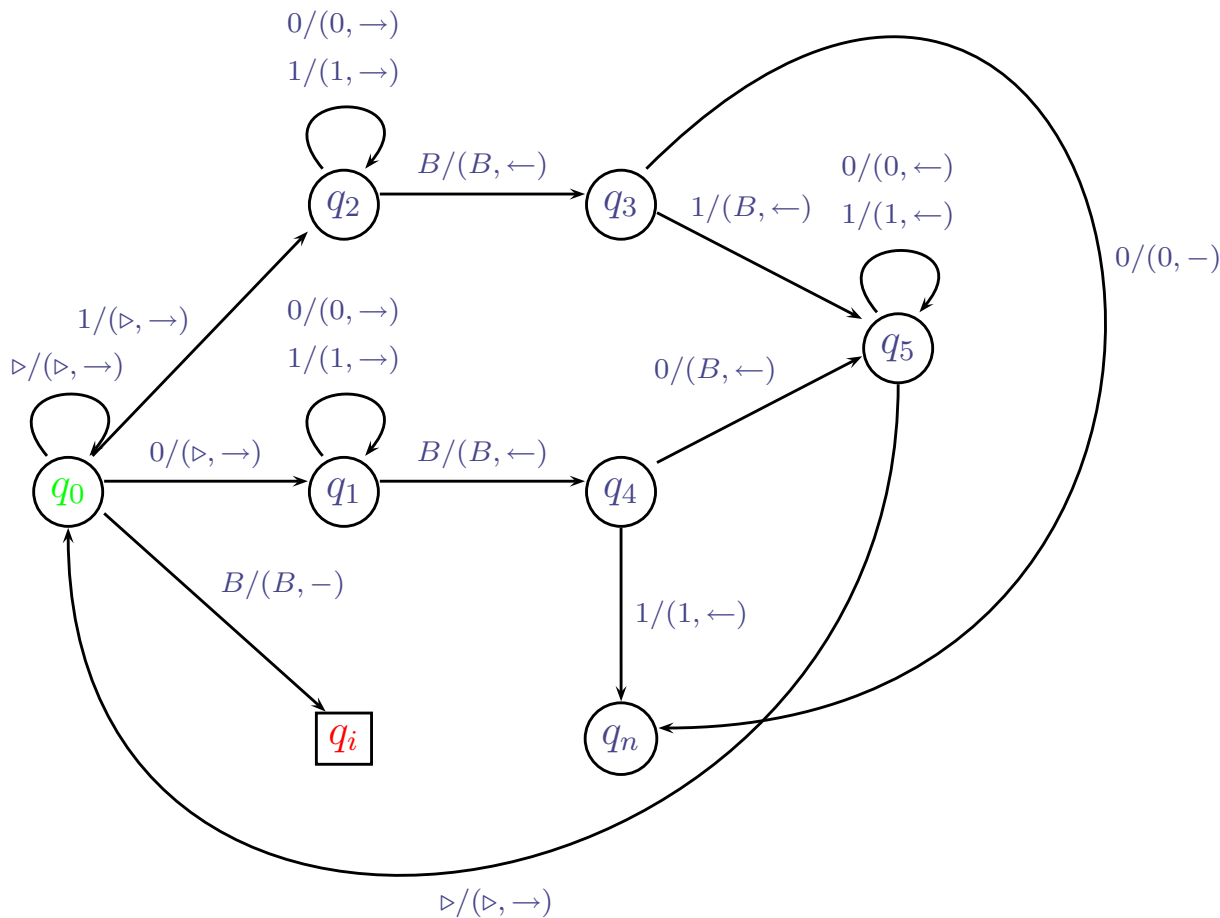
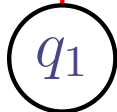
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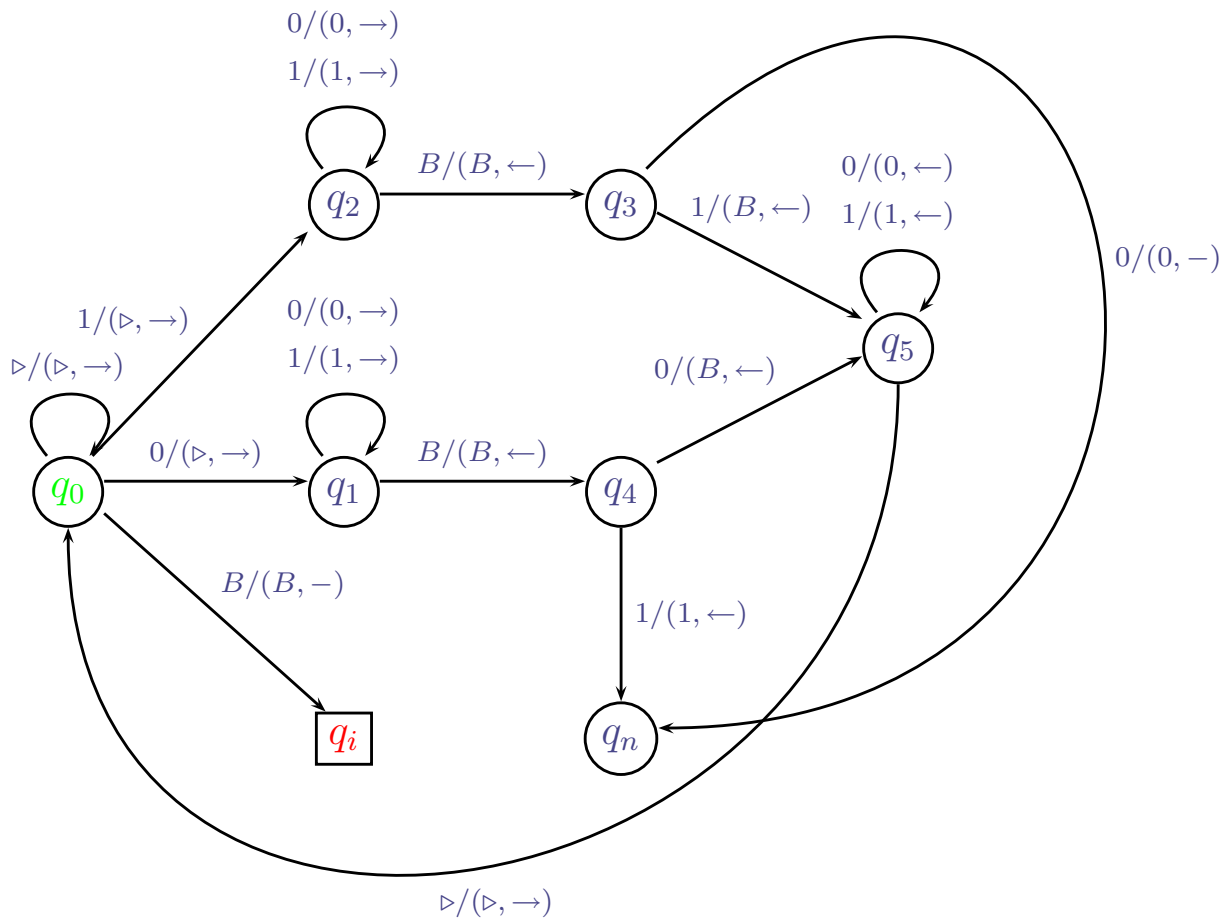
# A páros hosszúságú palindromákat eldöntő Turing-gép



# A páros hosszúságú palindromákat eldöntő Turing-gép

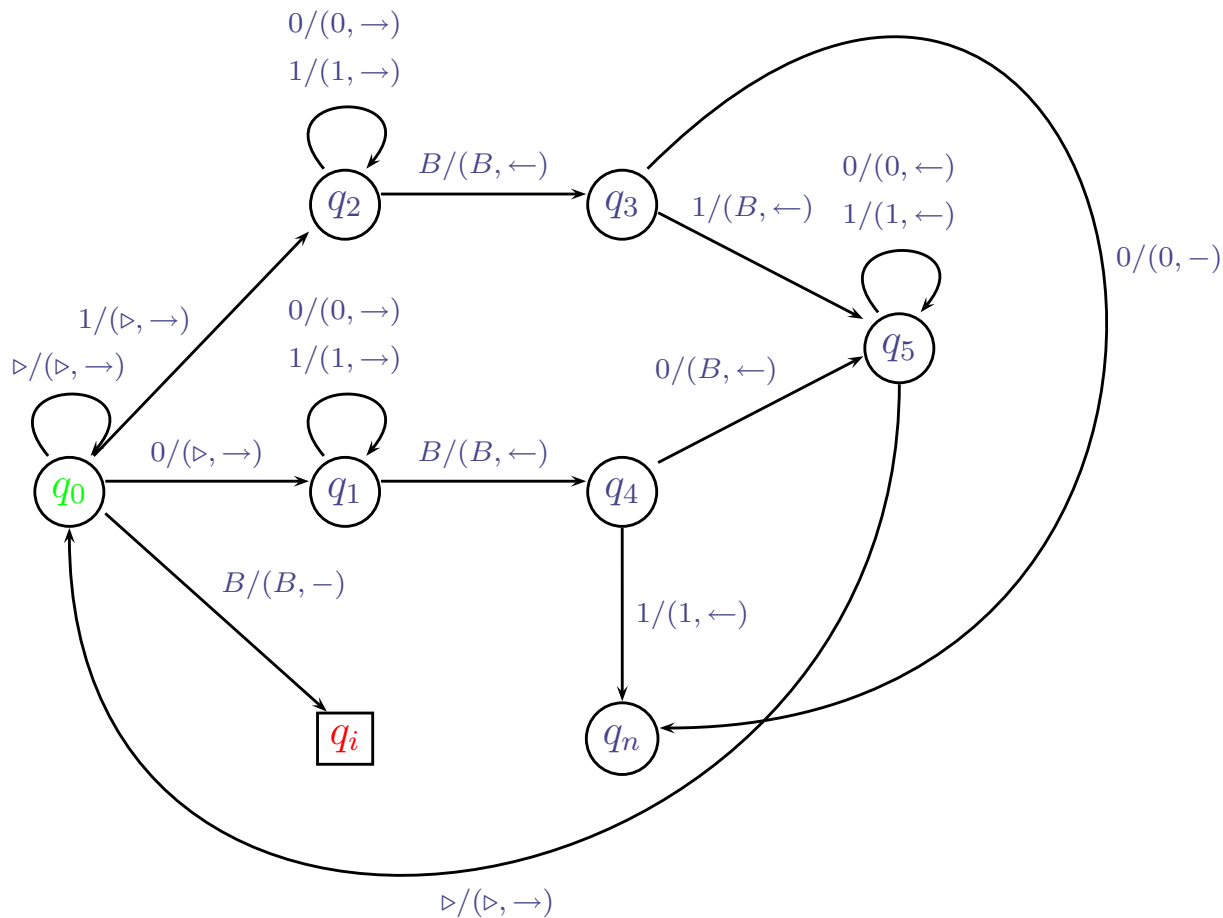
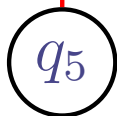
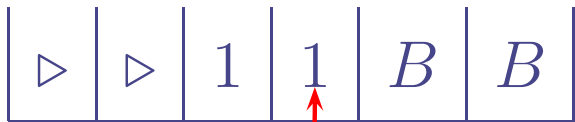


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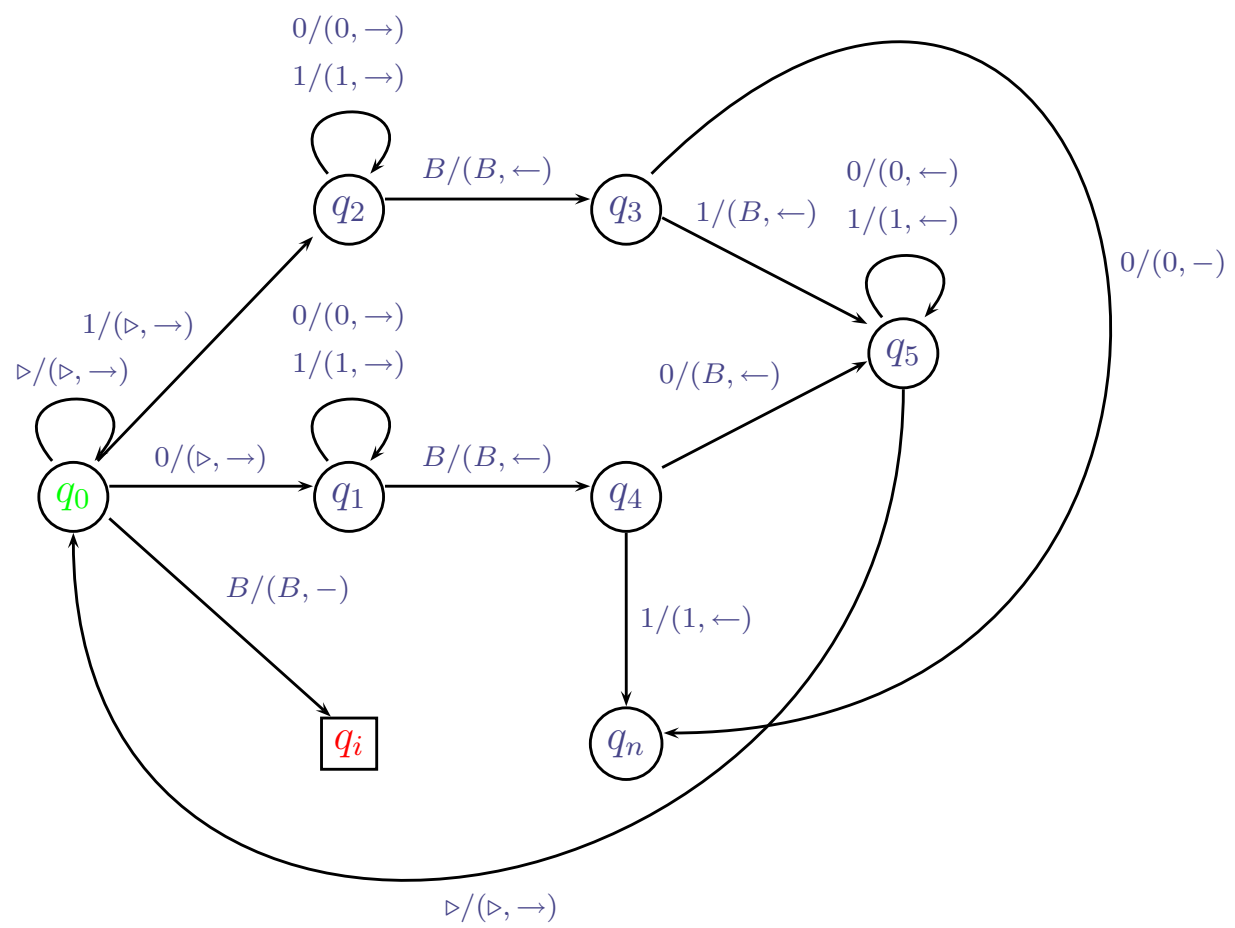
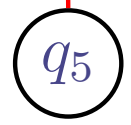
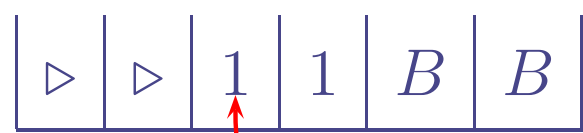




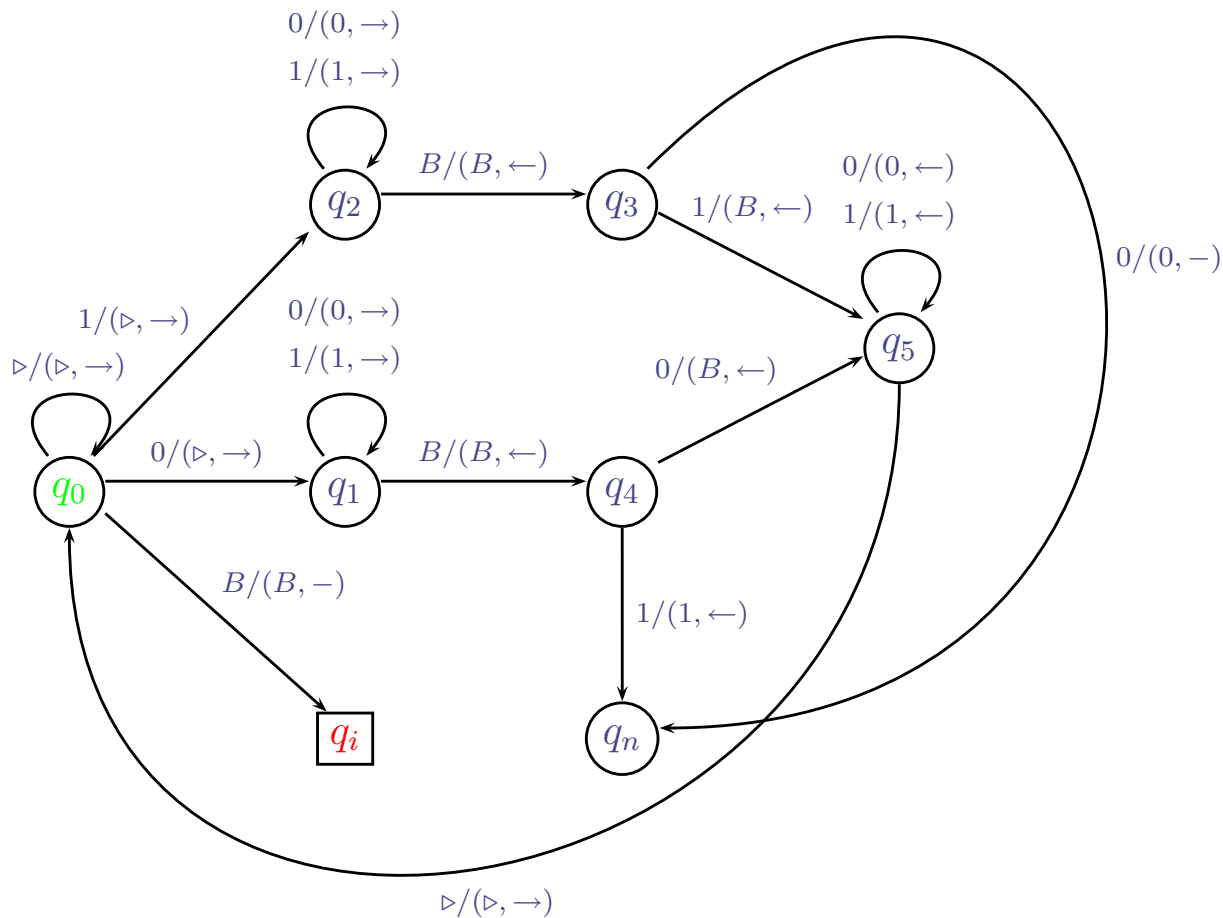
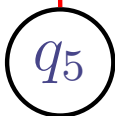
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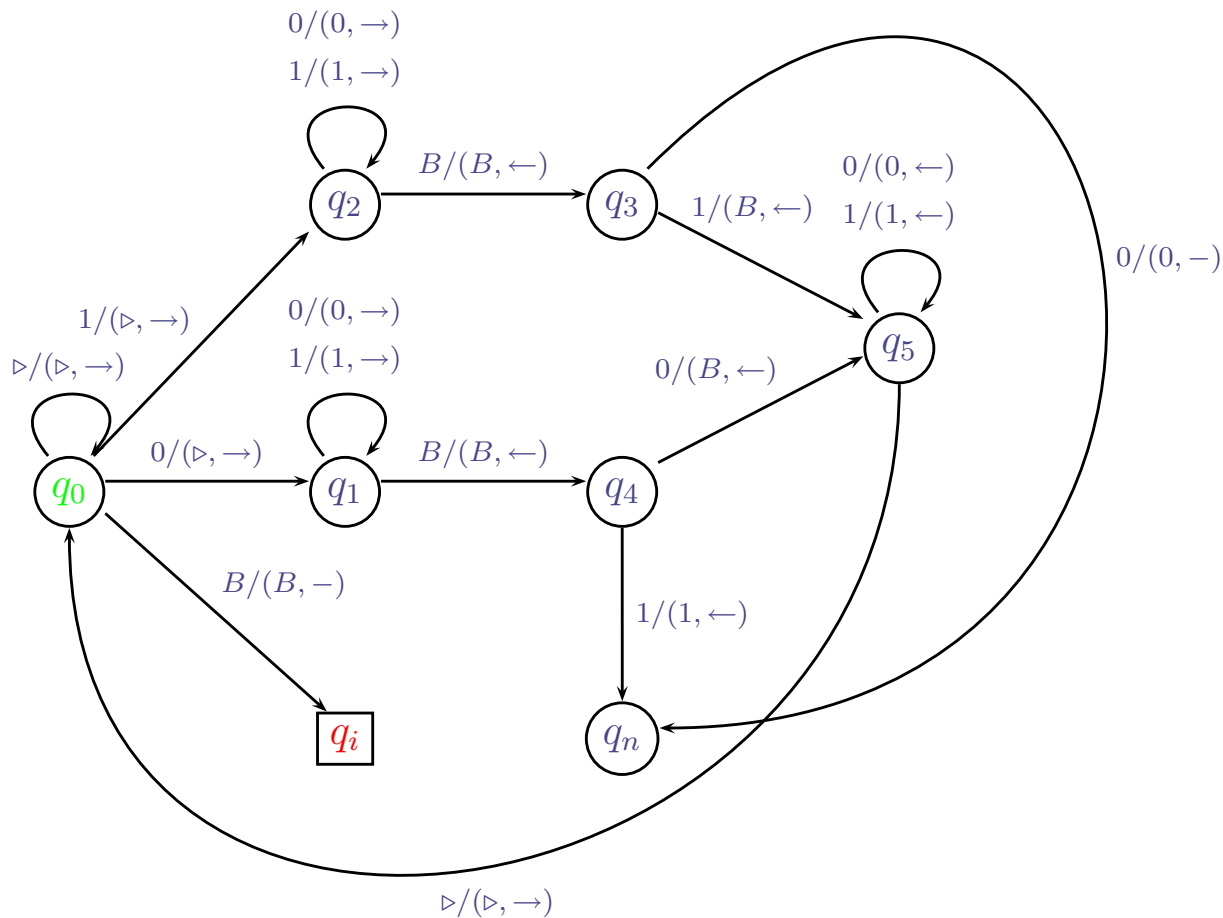
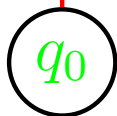
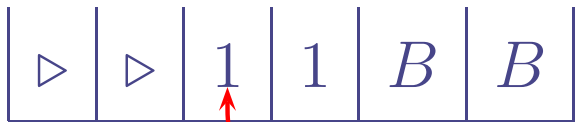
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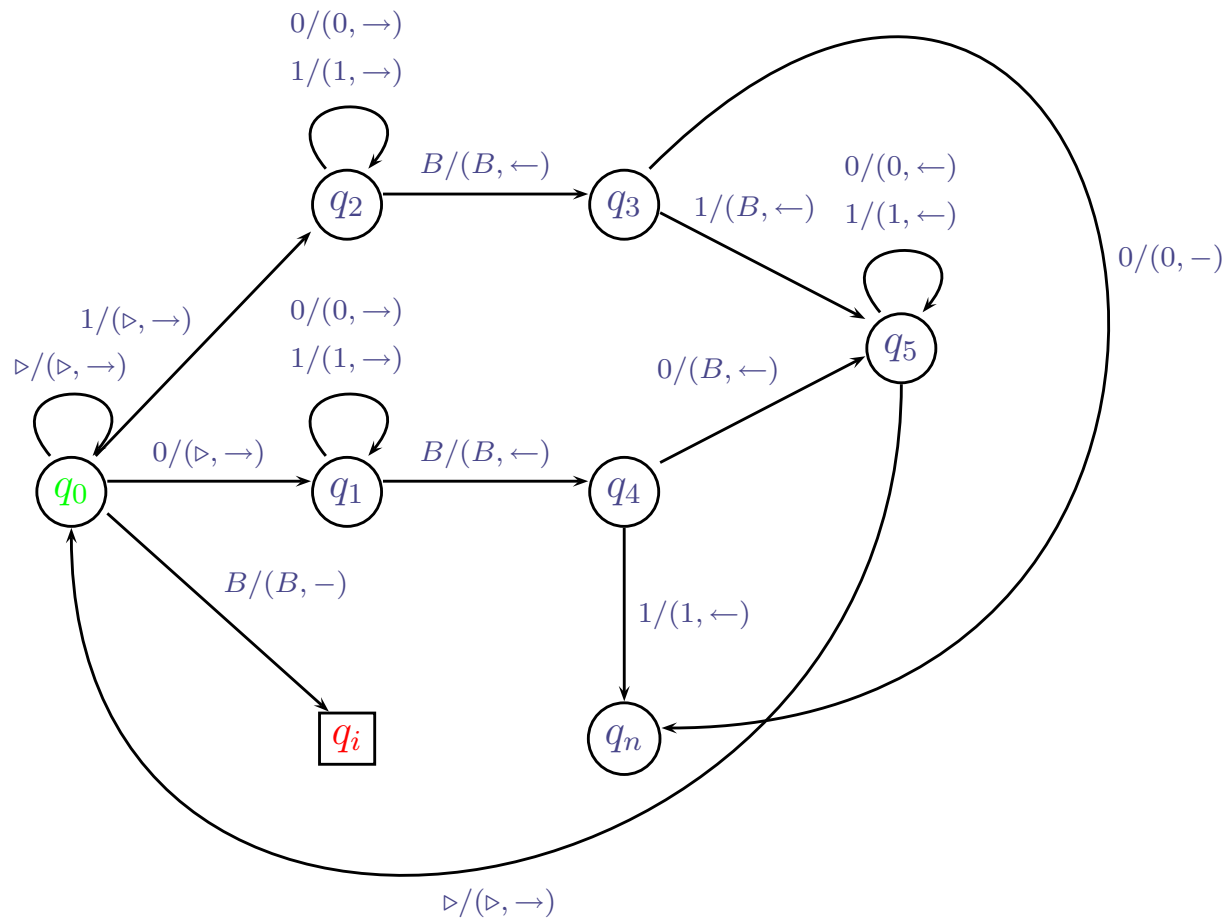
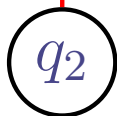
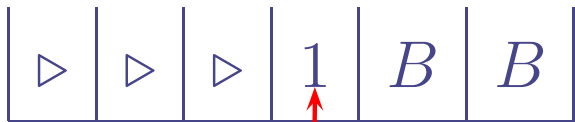
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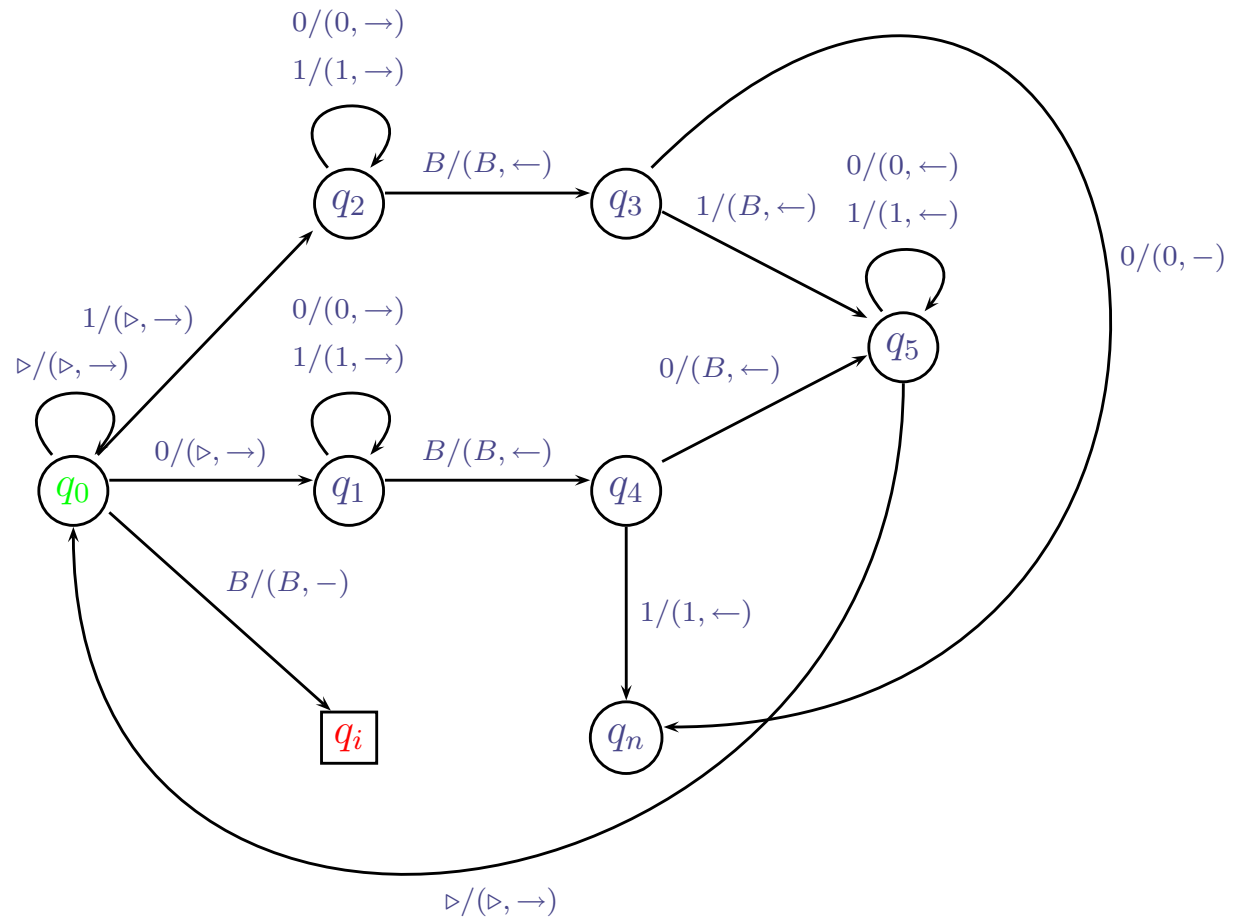
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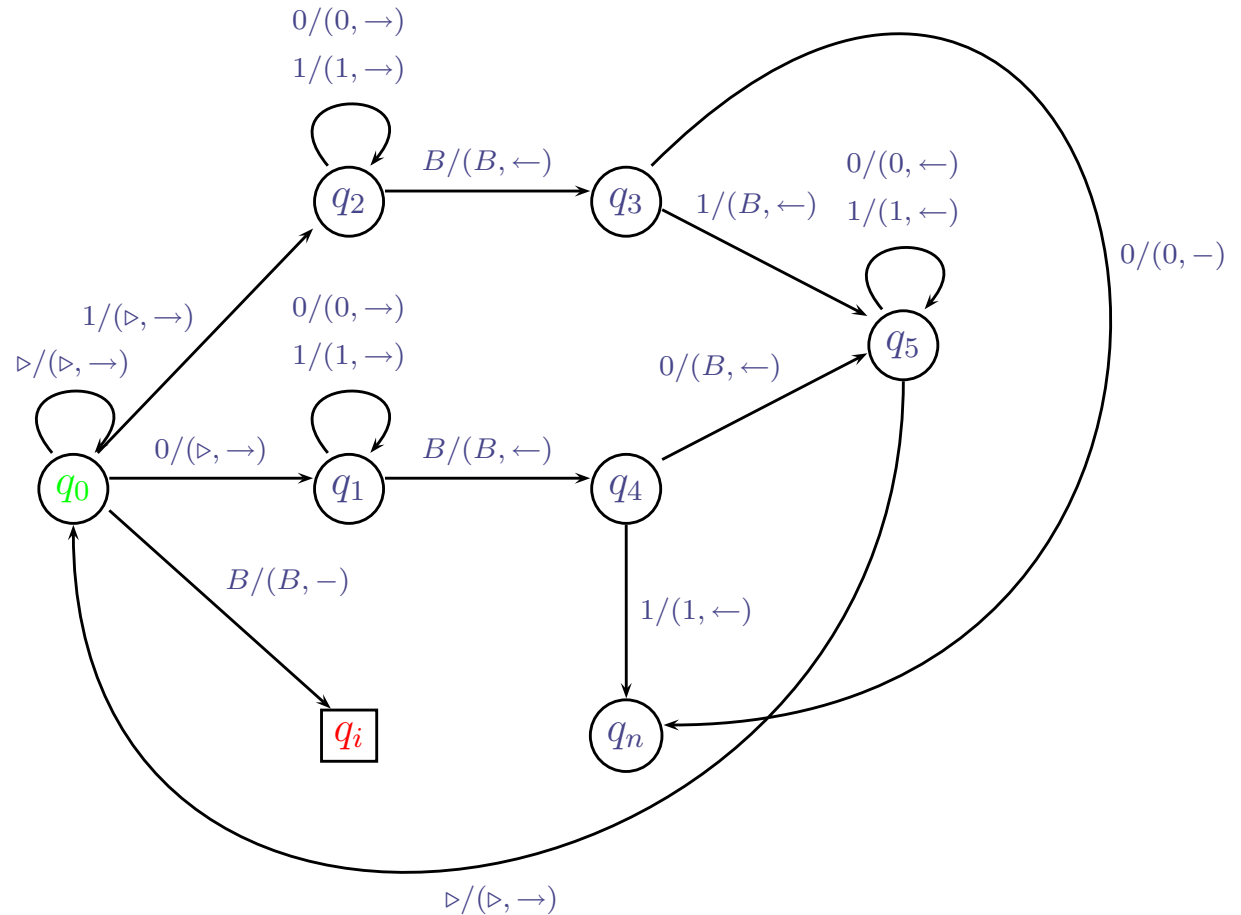
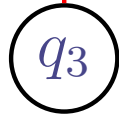
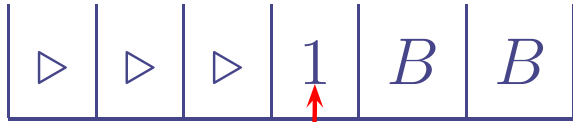
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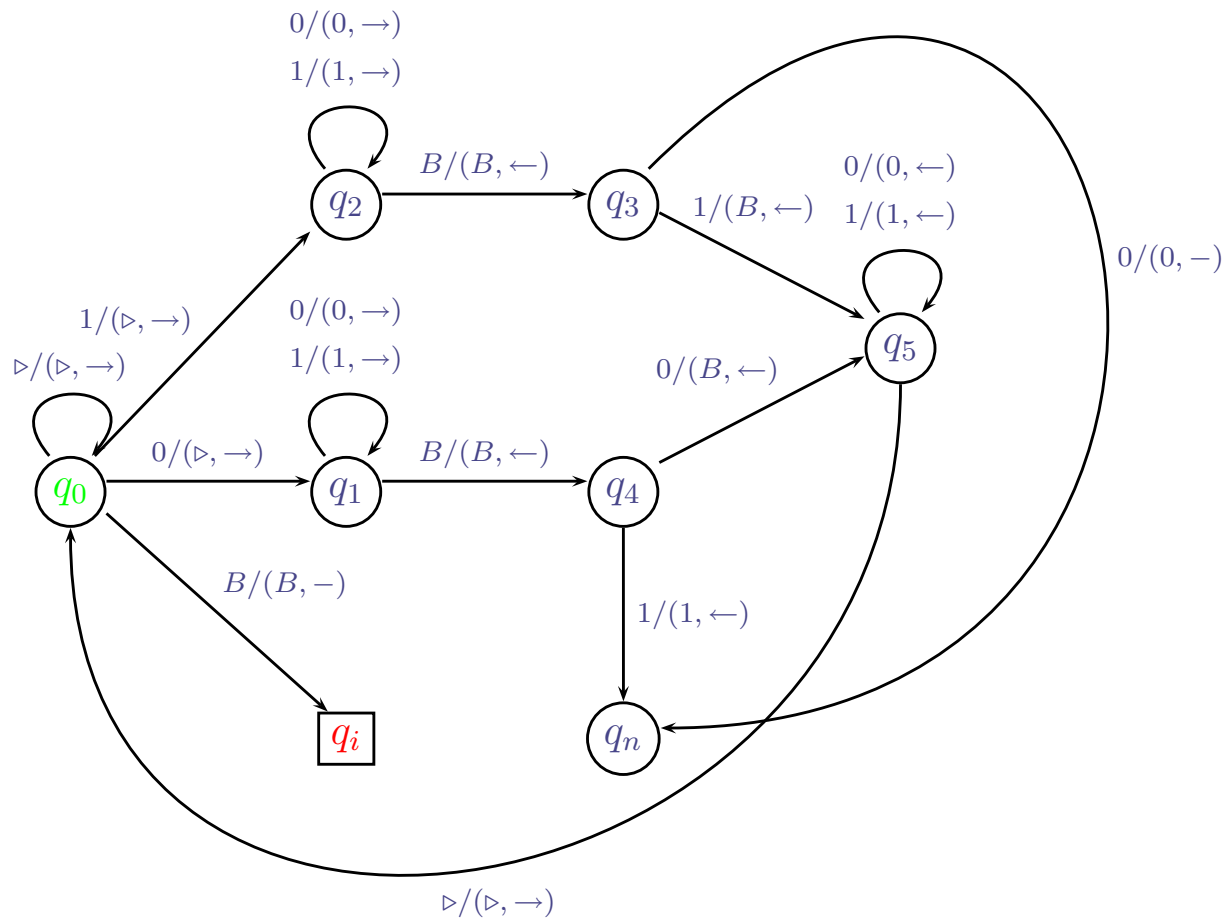
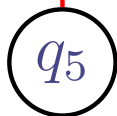
# A páros hosszúságú palindromákat eldöntő Turing-gép



# A páros hosszúságú palindromákat eldöntő Turing-gép

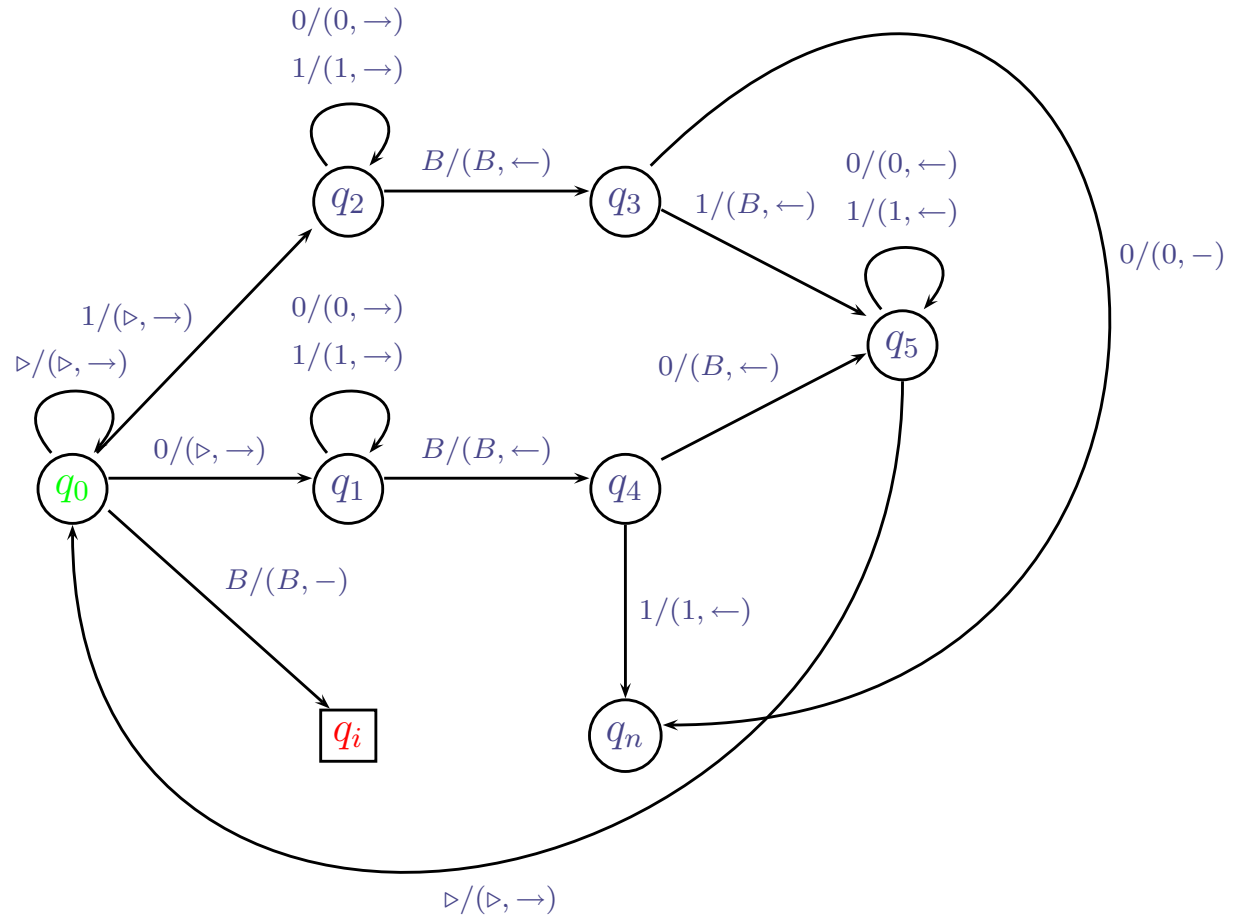
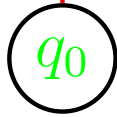
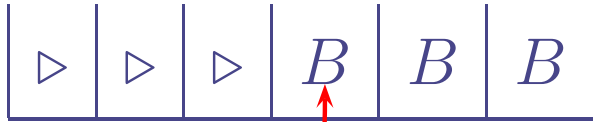


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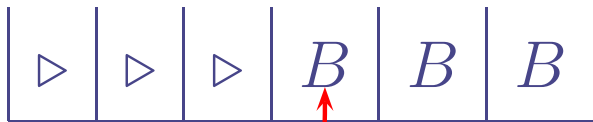




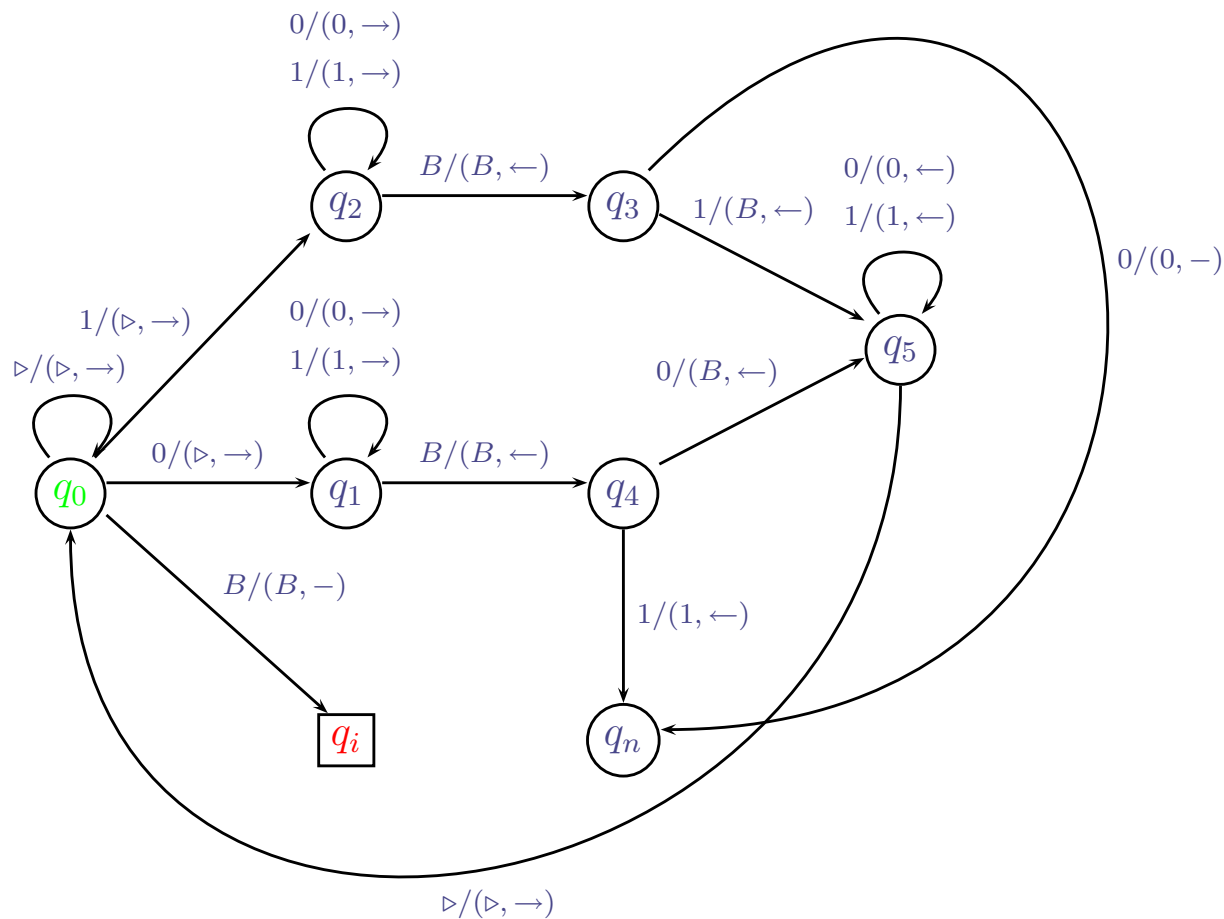
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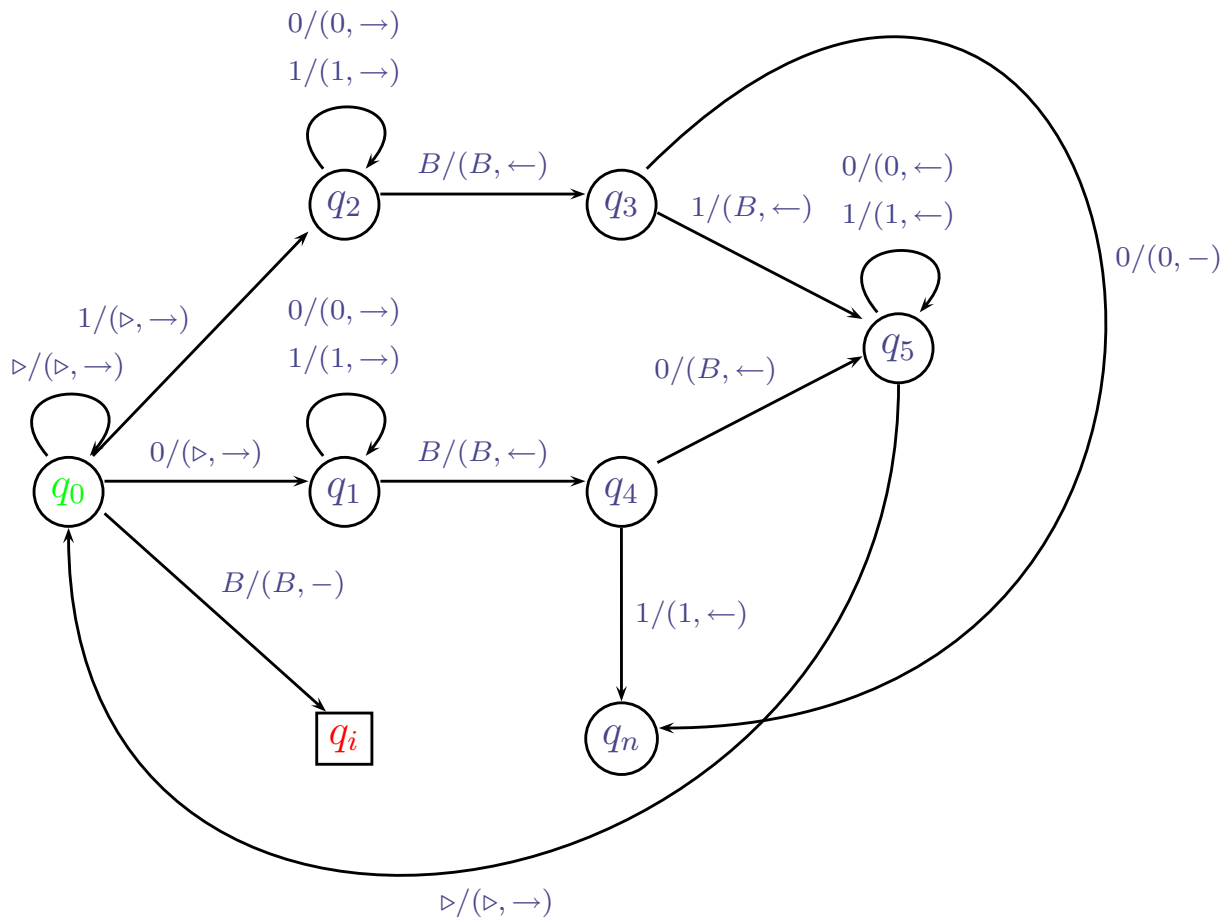
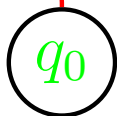
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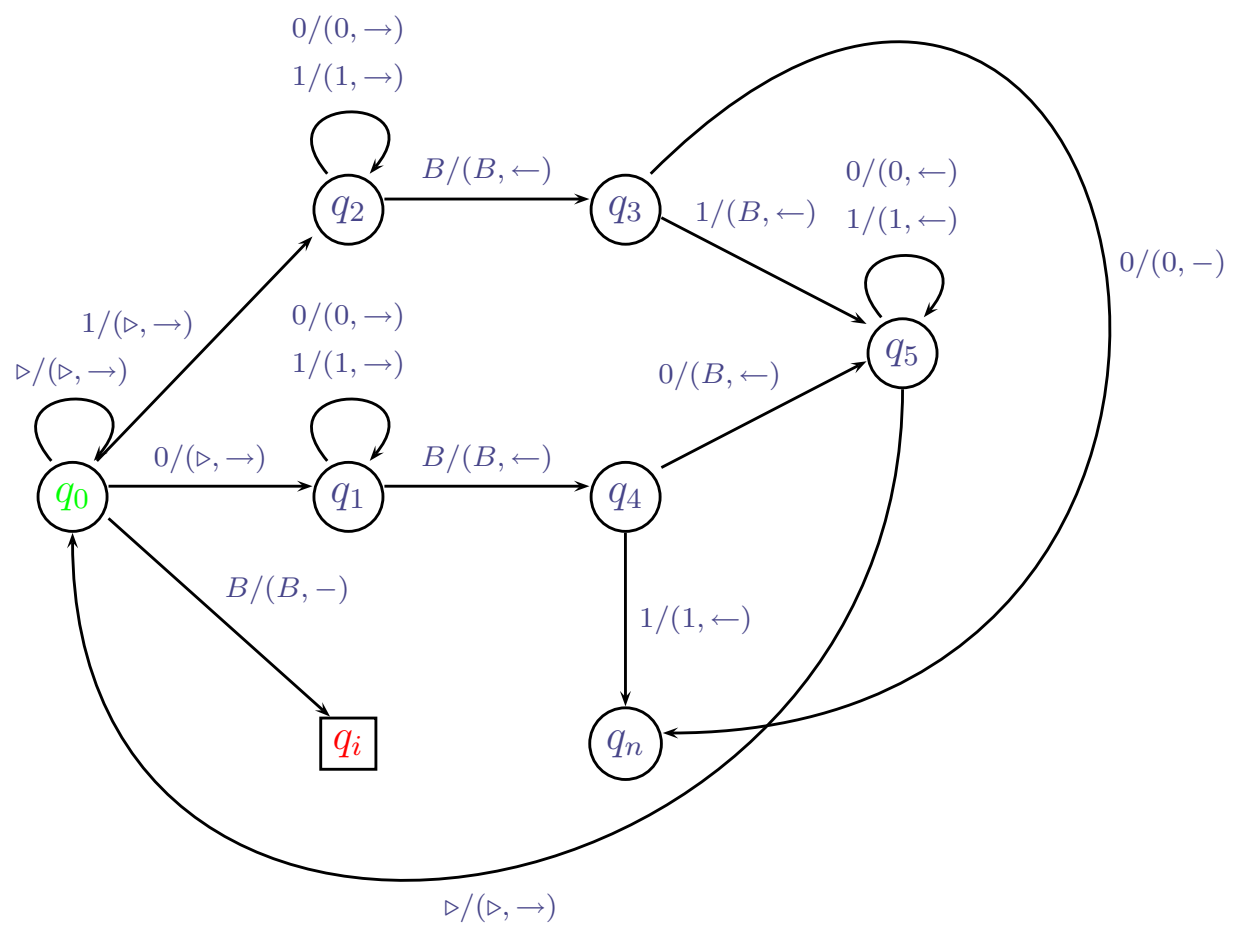
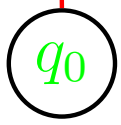
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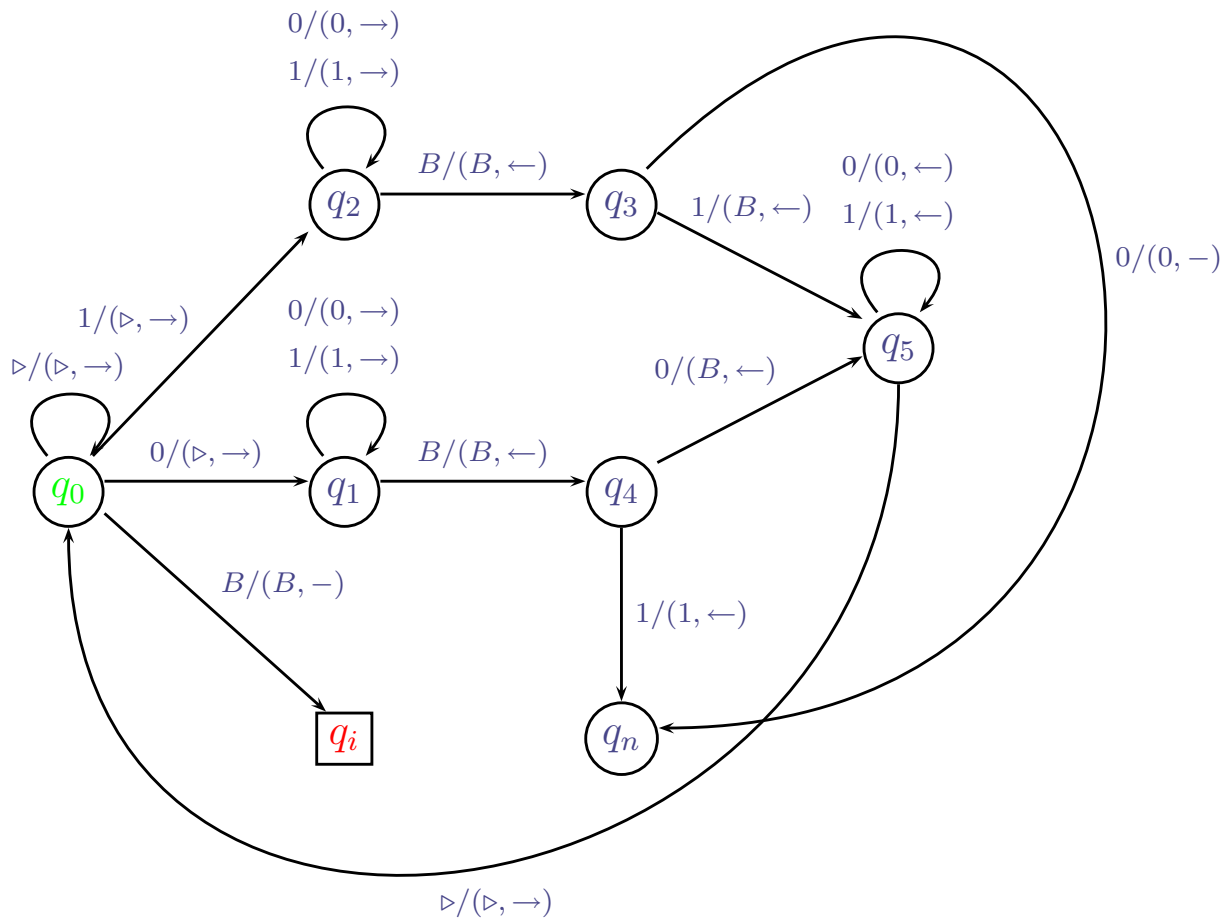
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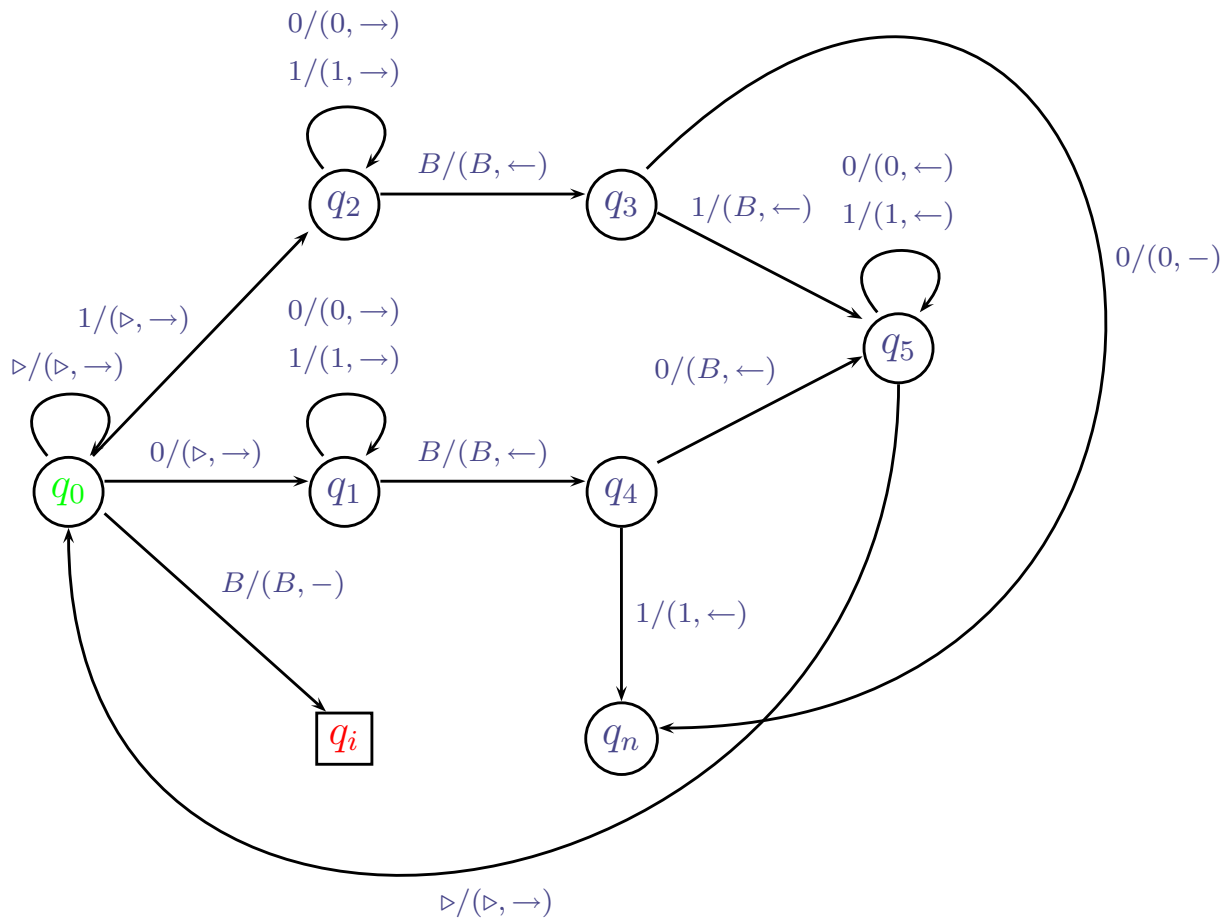
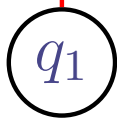
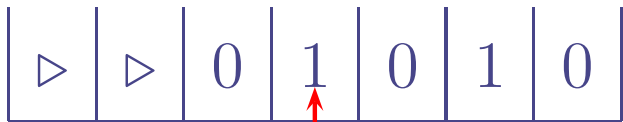
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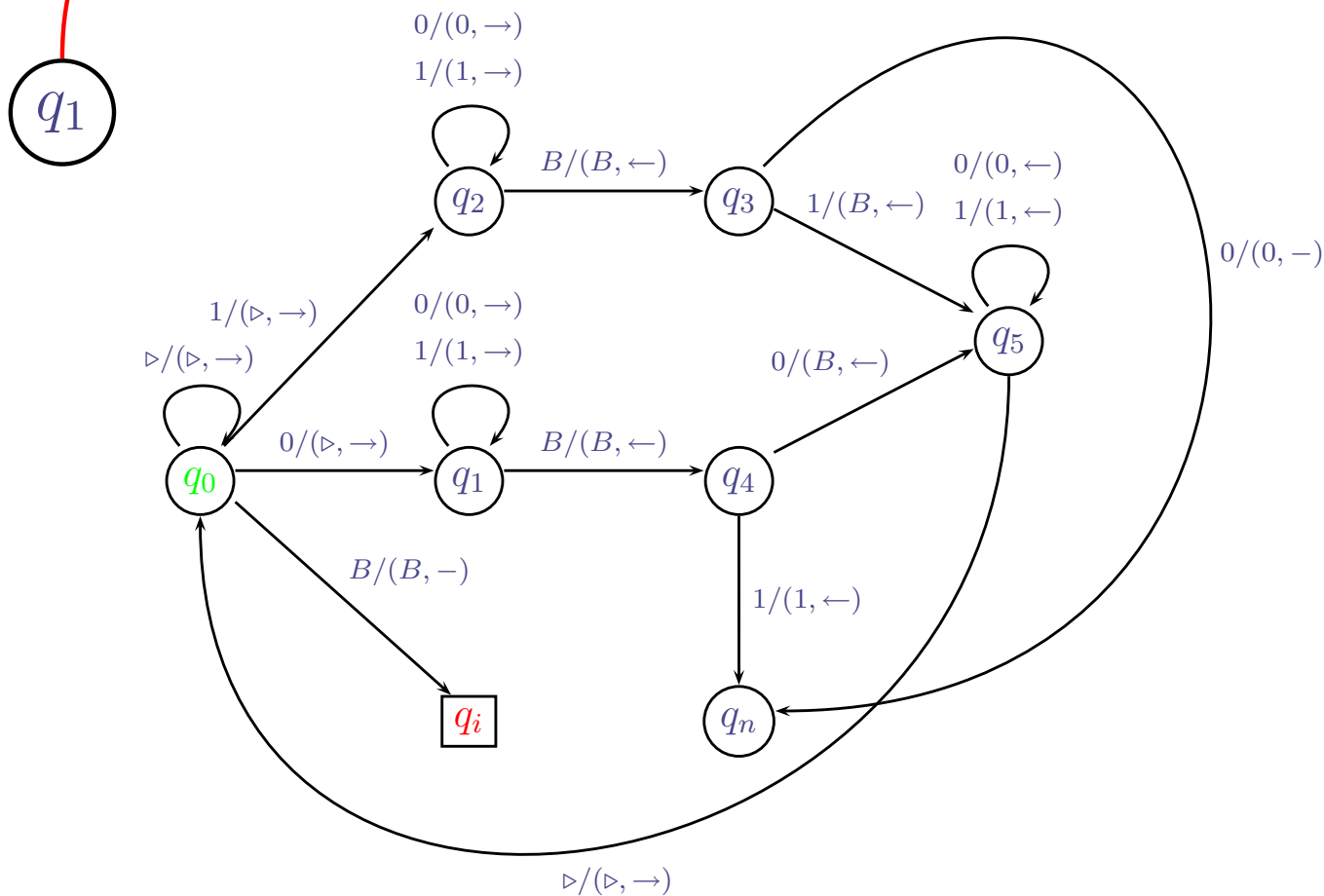
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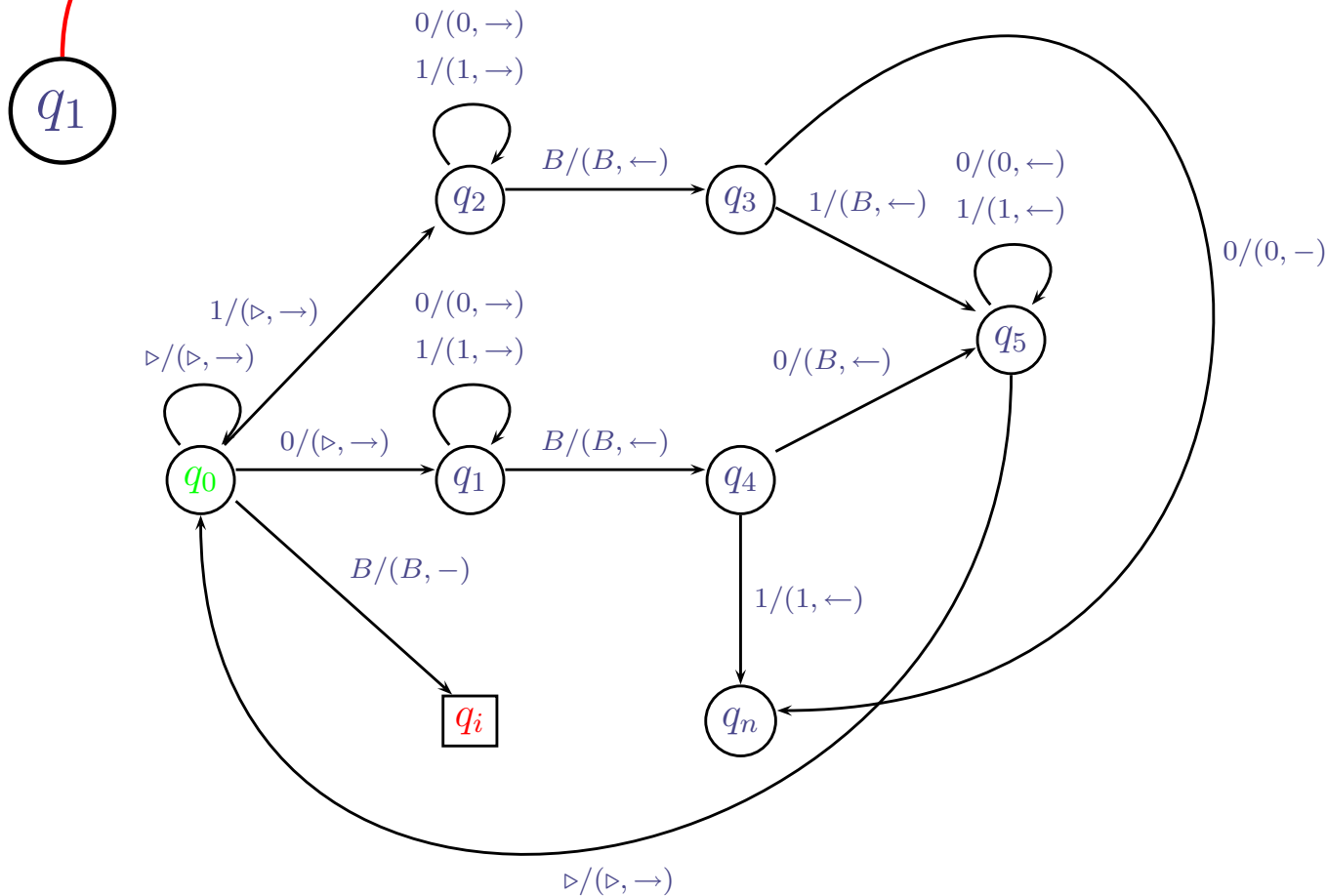
# A páros hosszúságú palindromákat eldöntő Turing-gép



# A páros hosszúságú palindromákat eldöntő Turing-gép

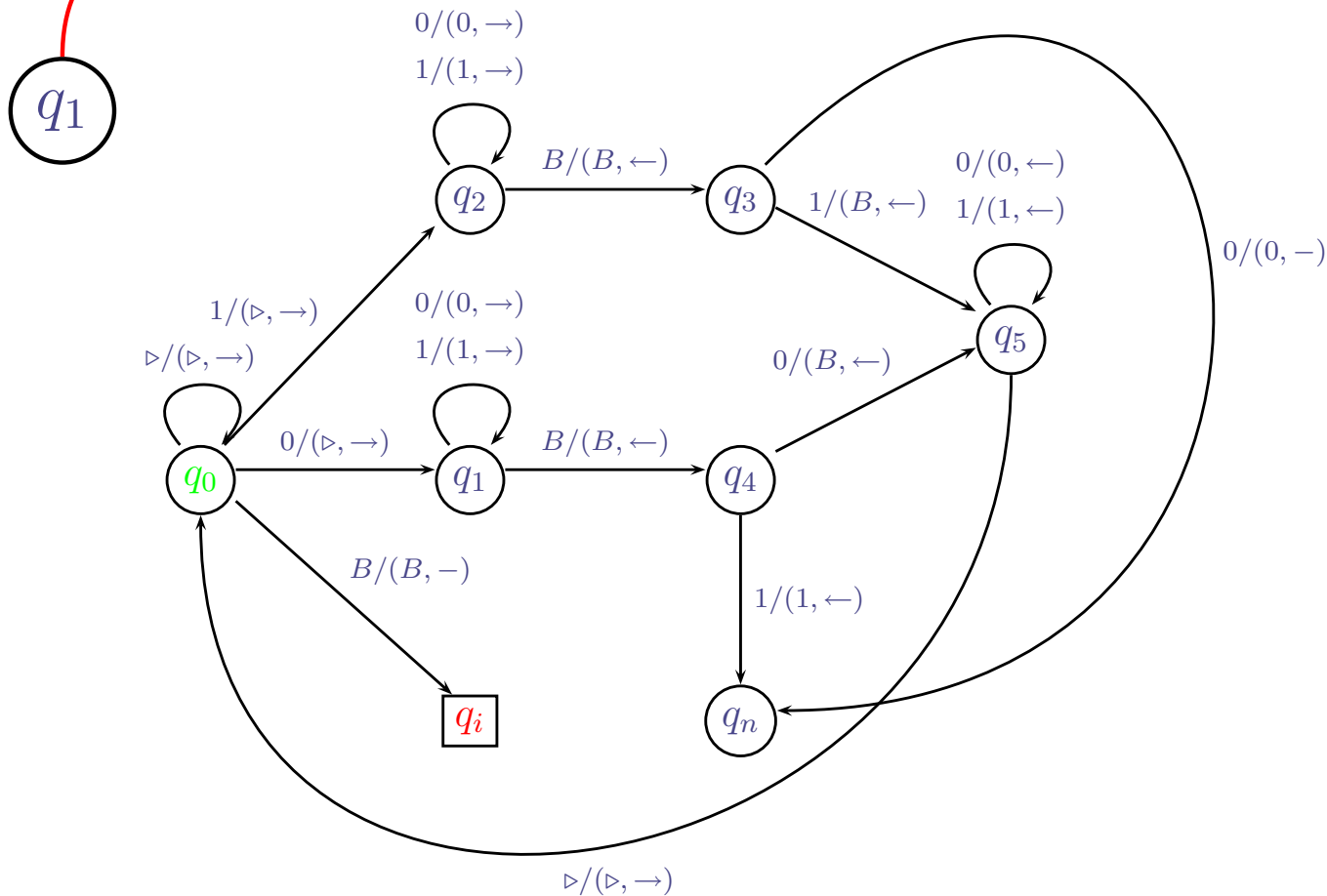


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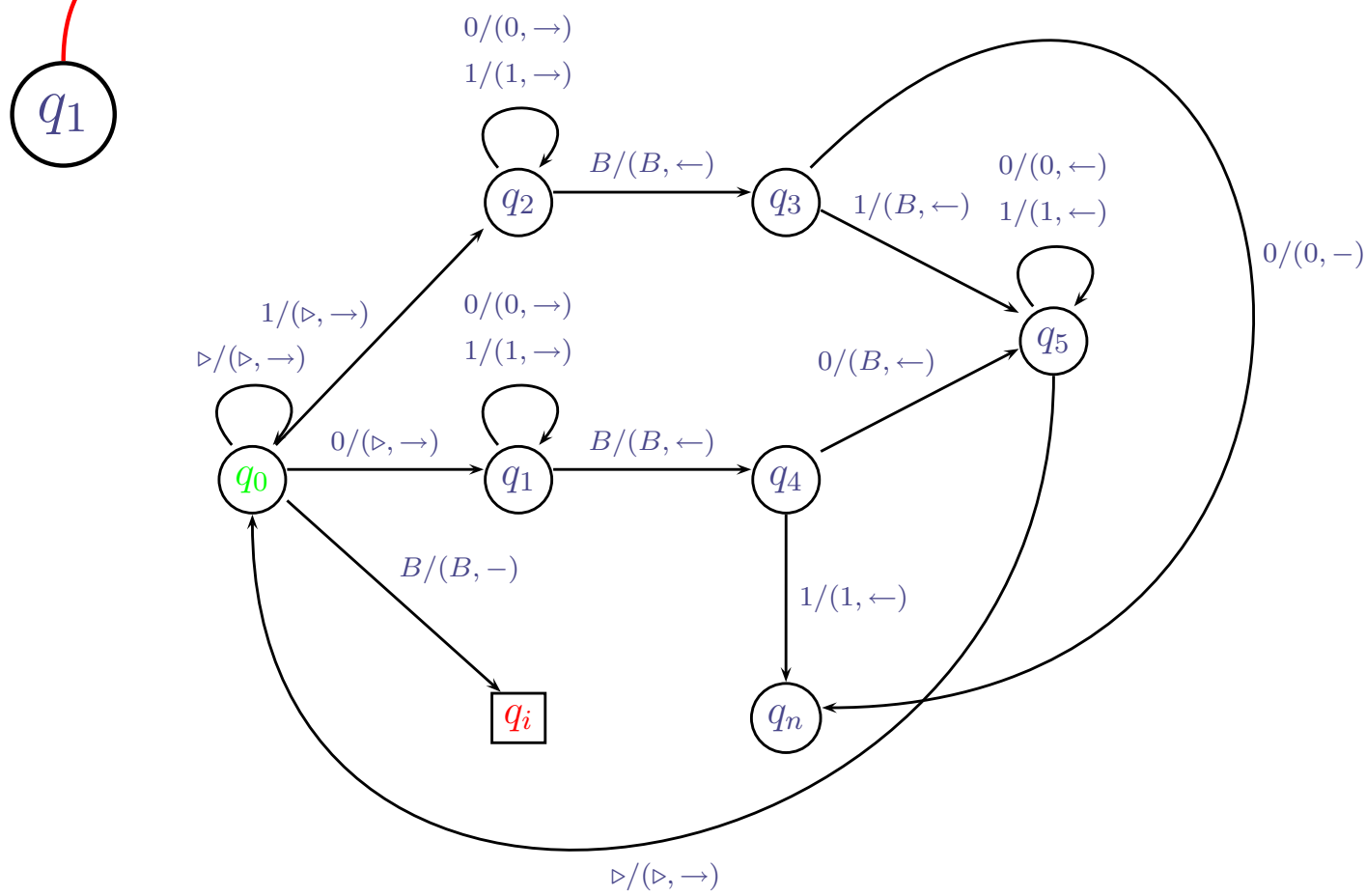




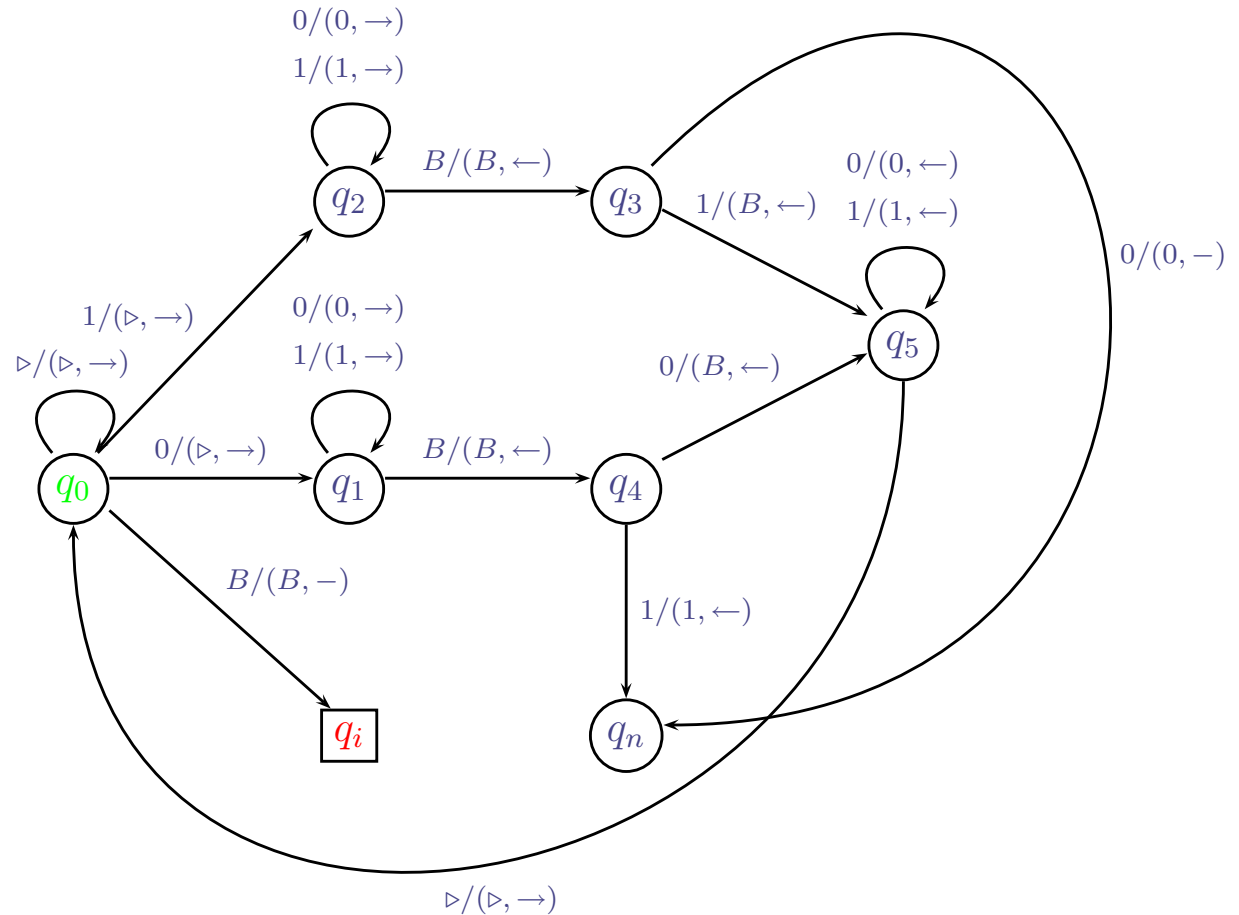
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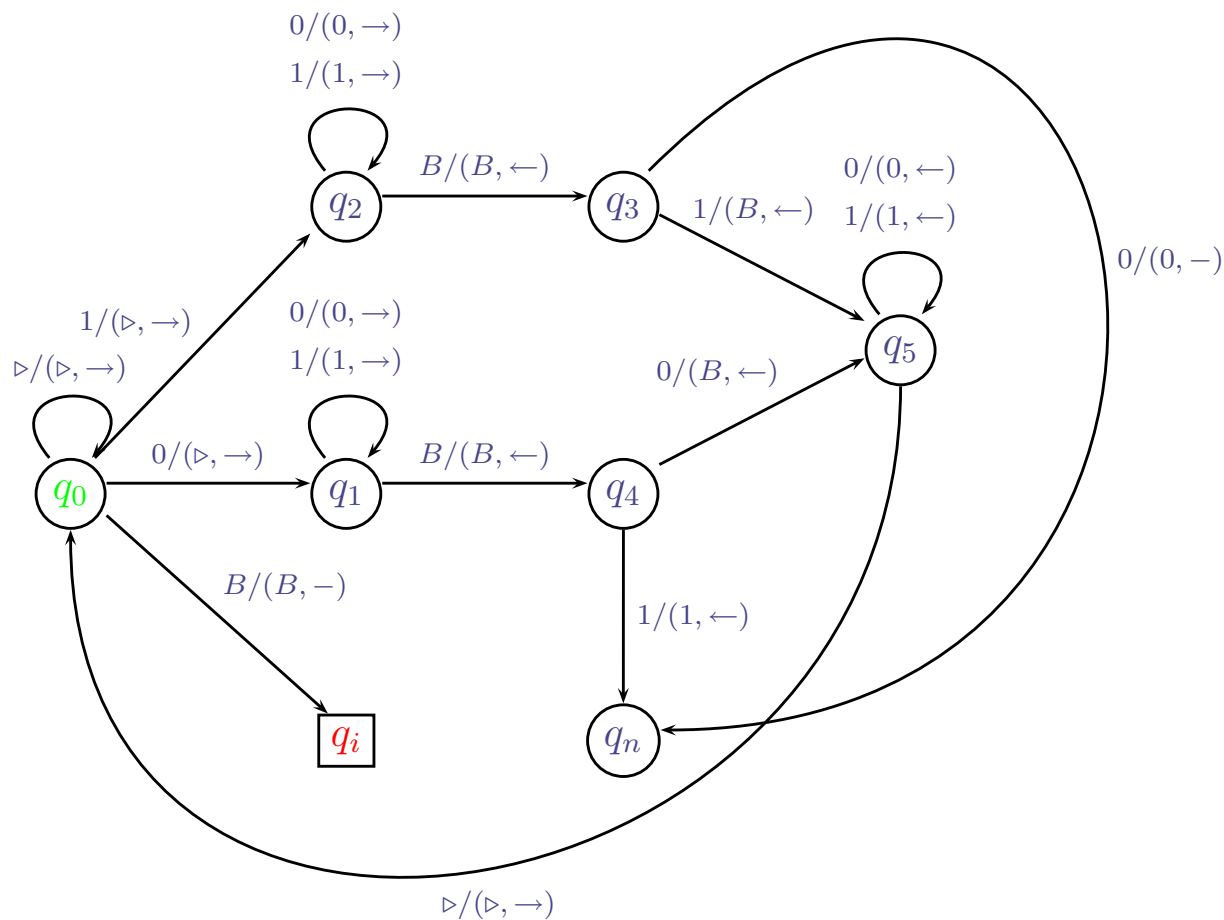
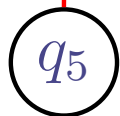
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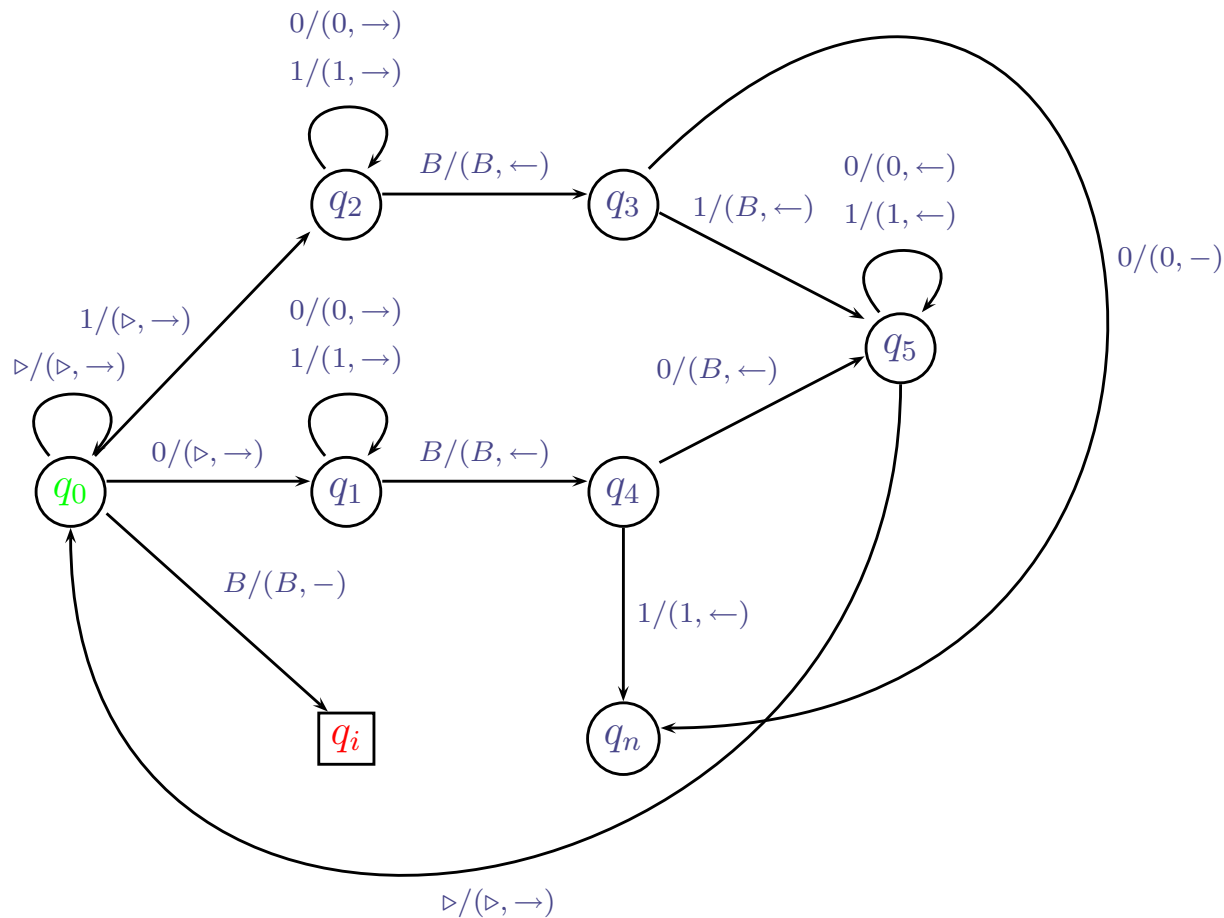
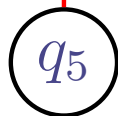
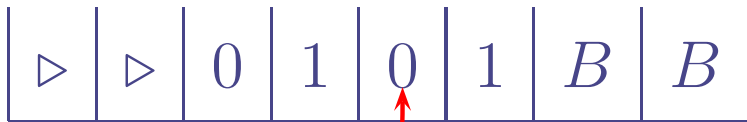
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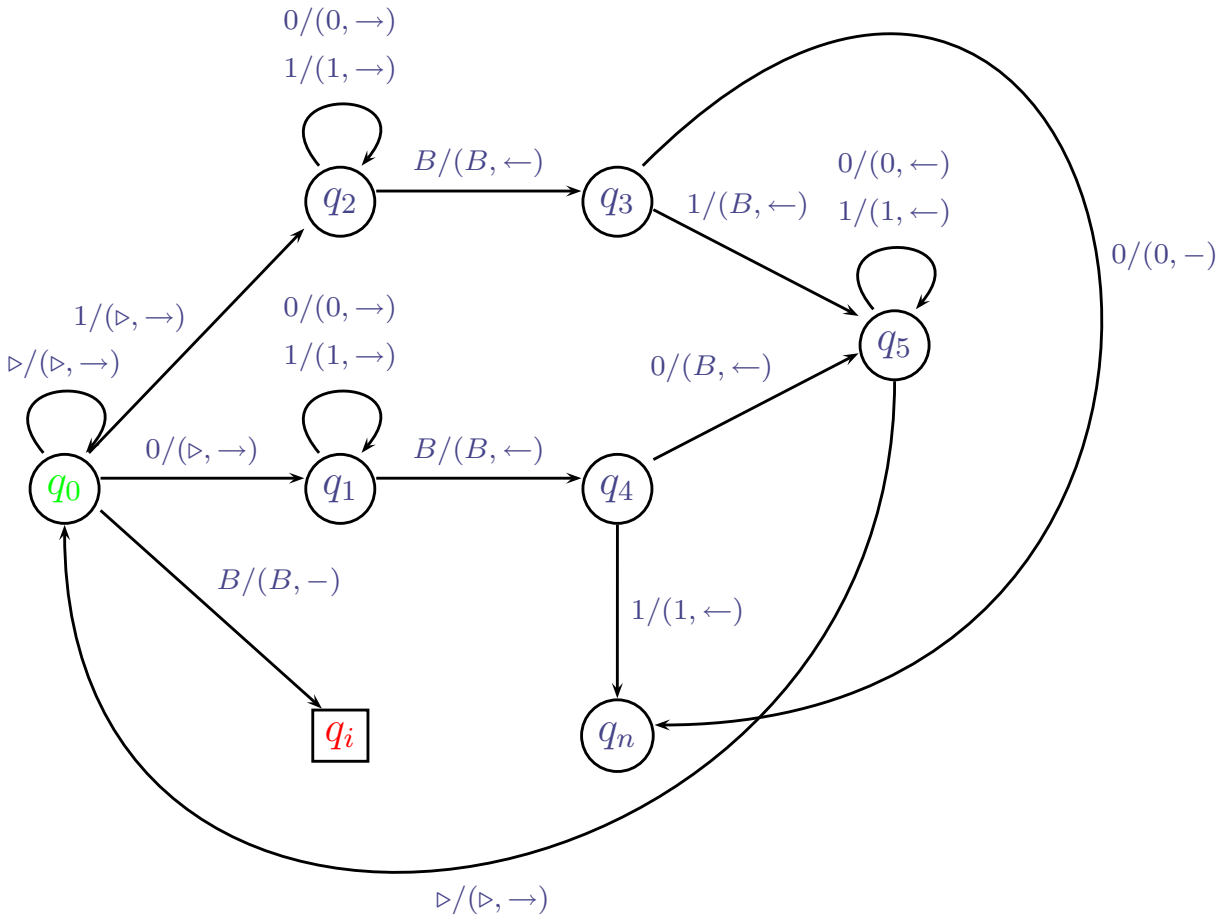
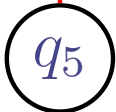
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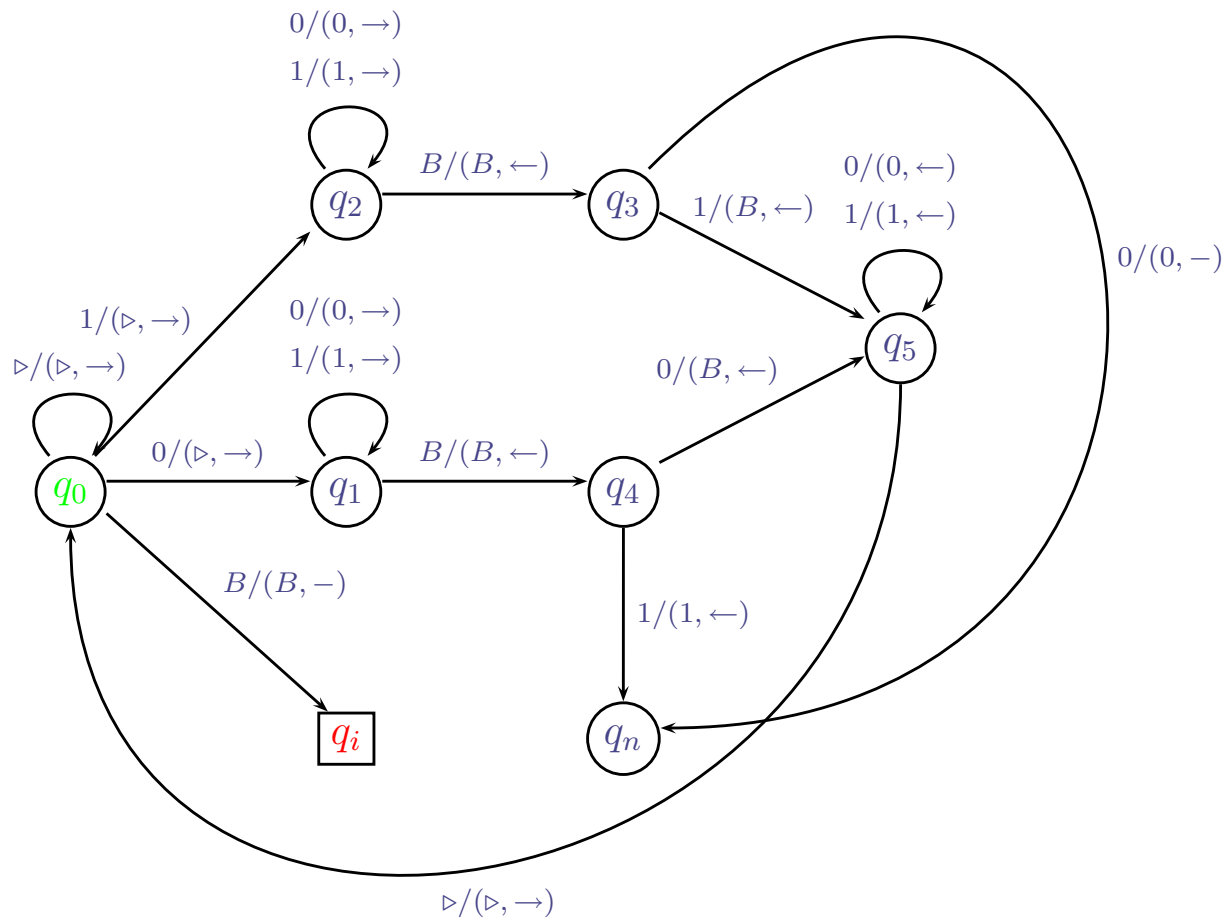
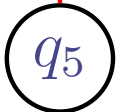
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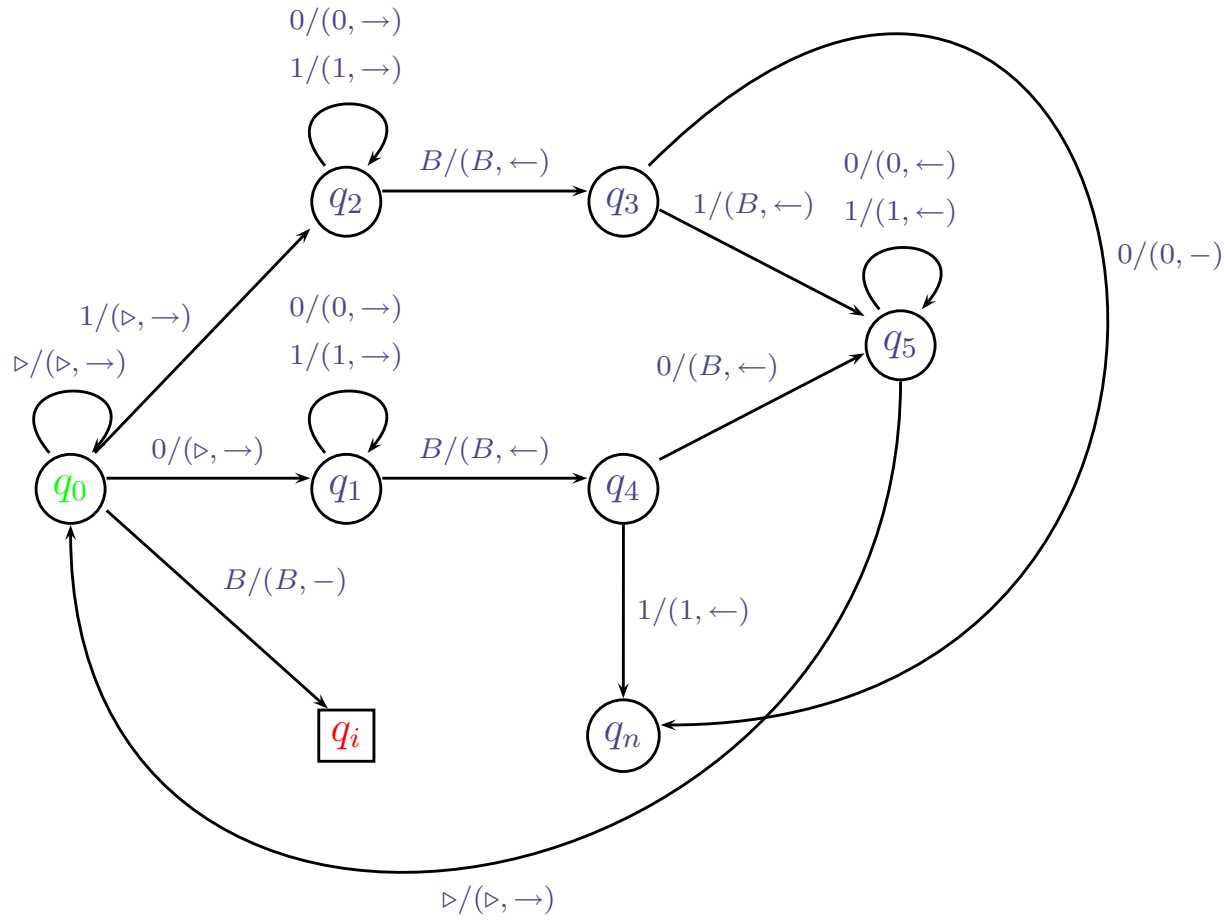
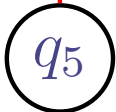
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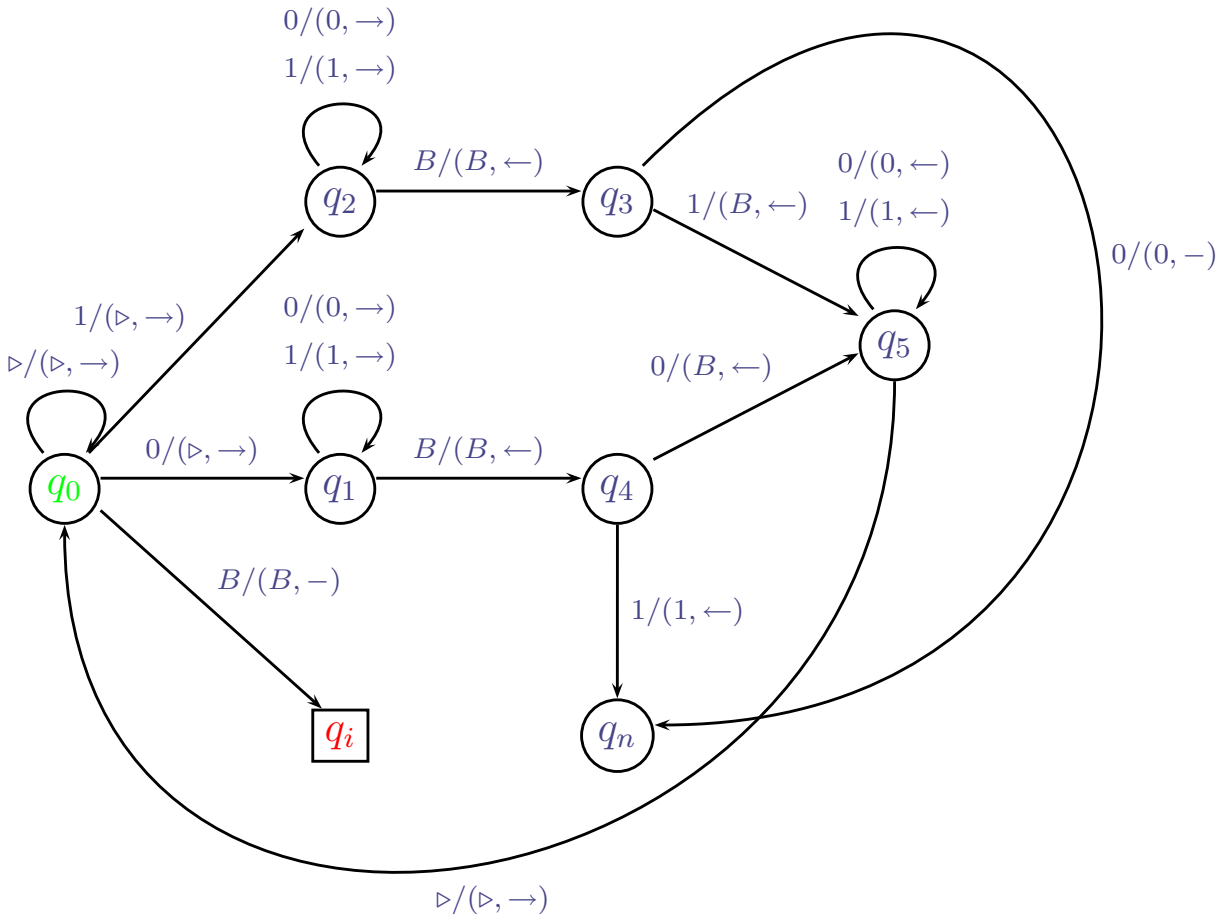
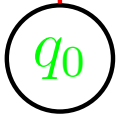


# A páros hosszúságú palindromákat eldöntő Turing-gép

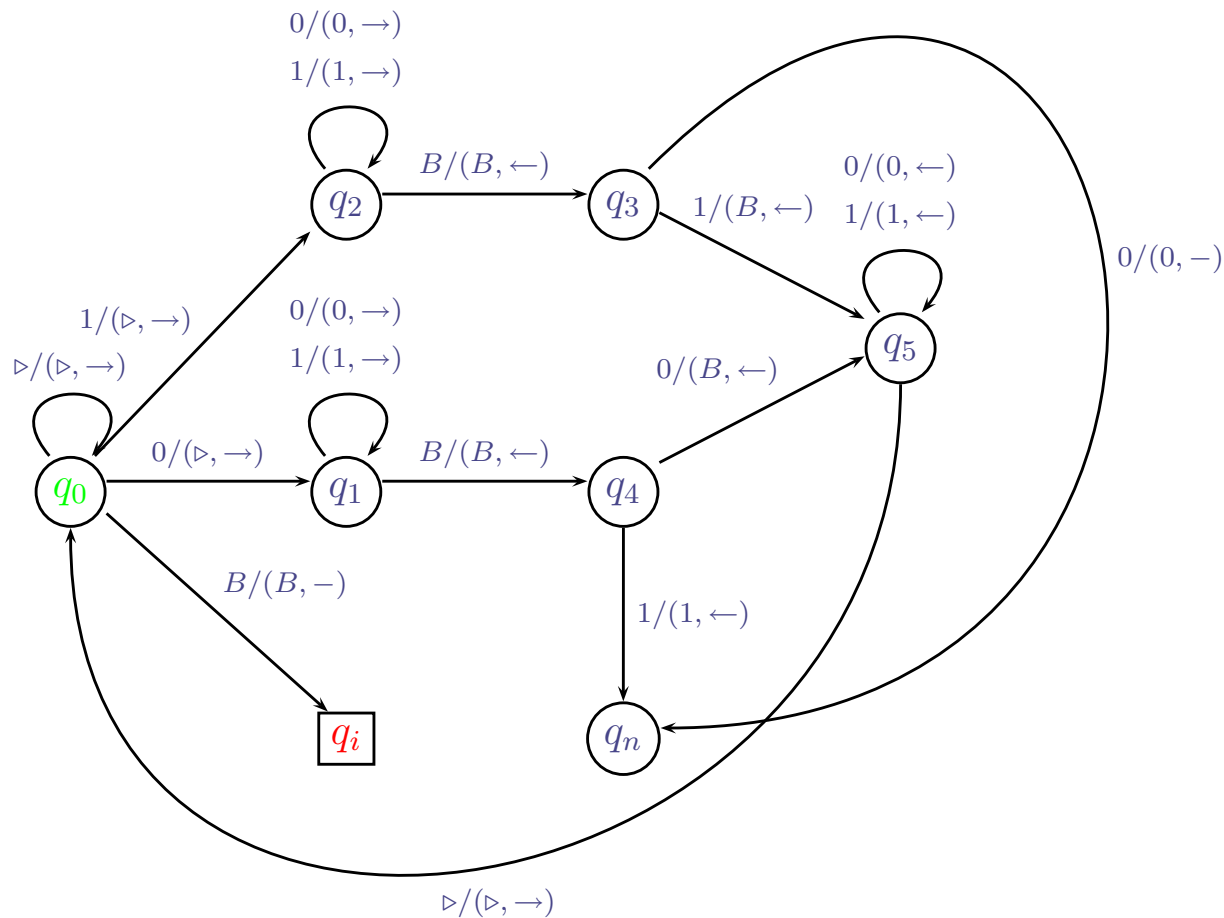
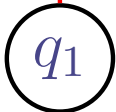




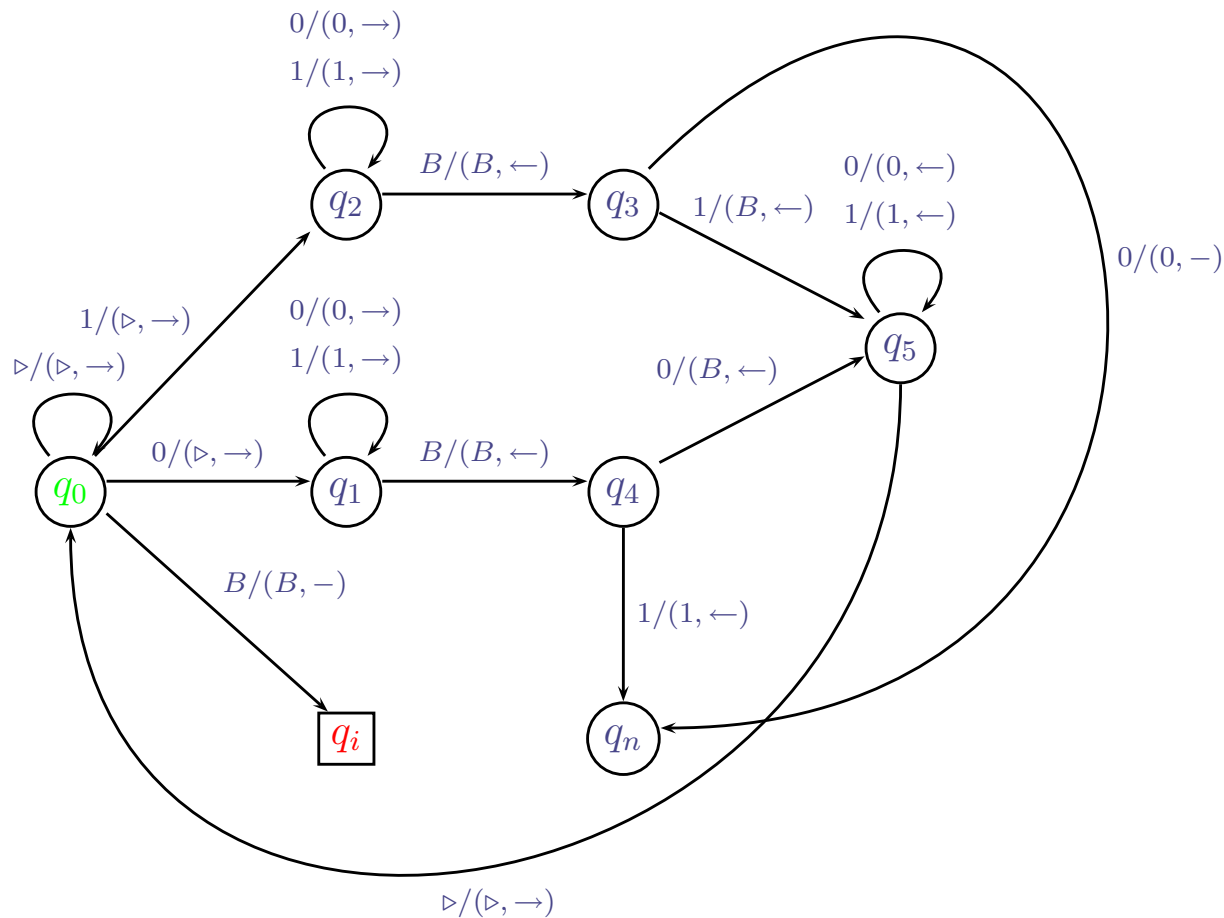
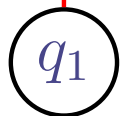
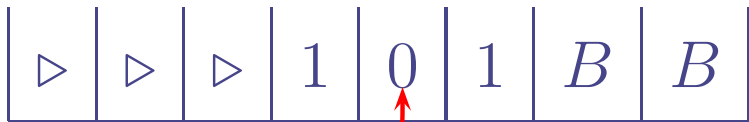
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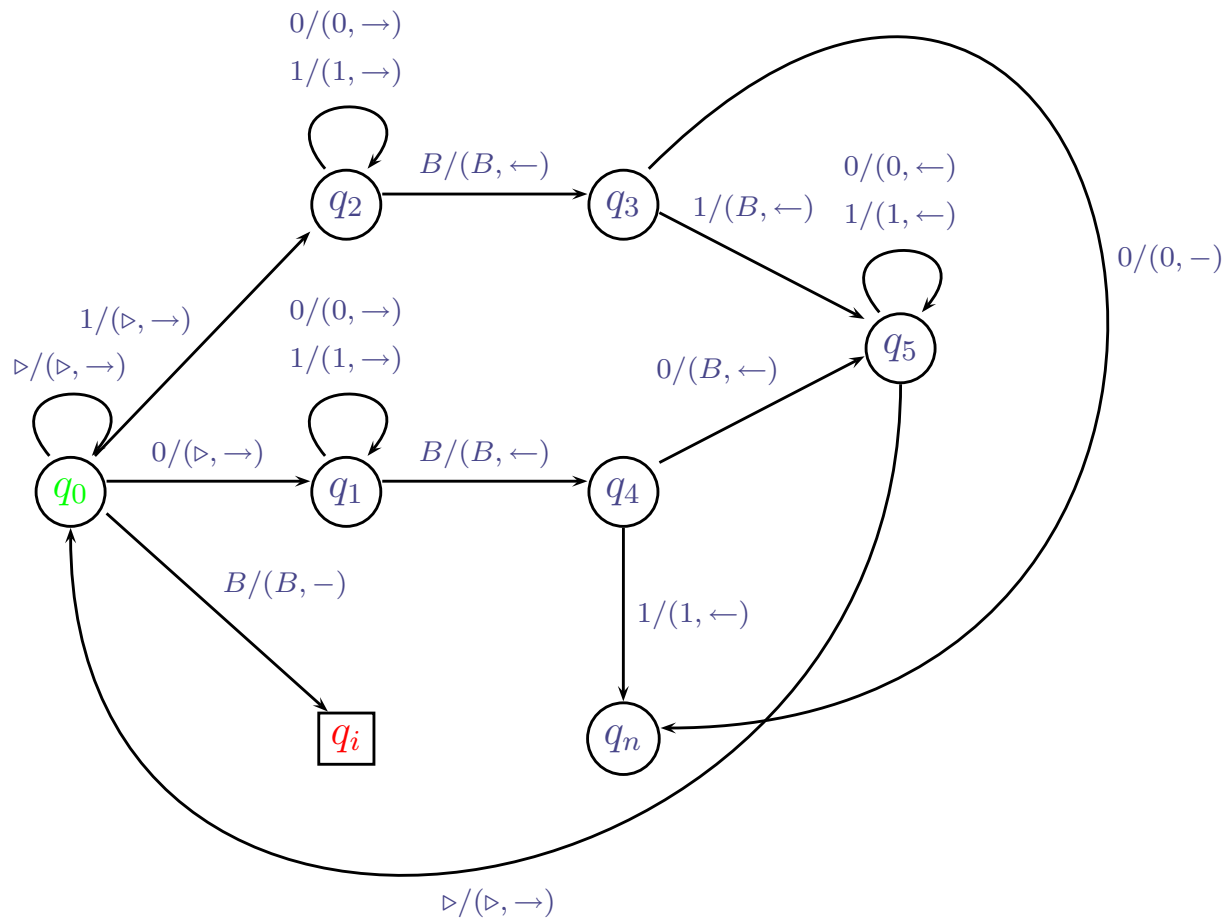
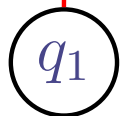
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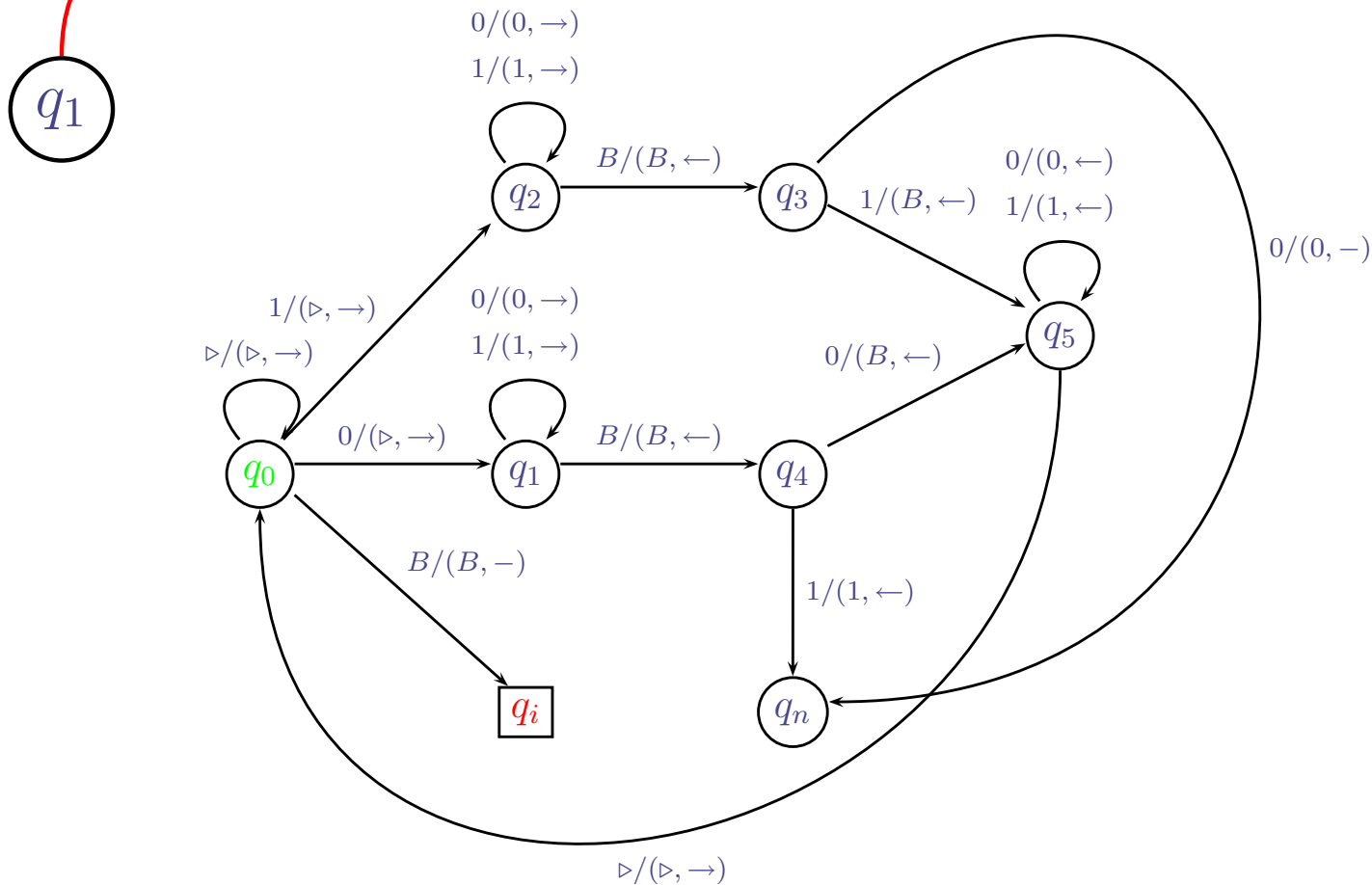
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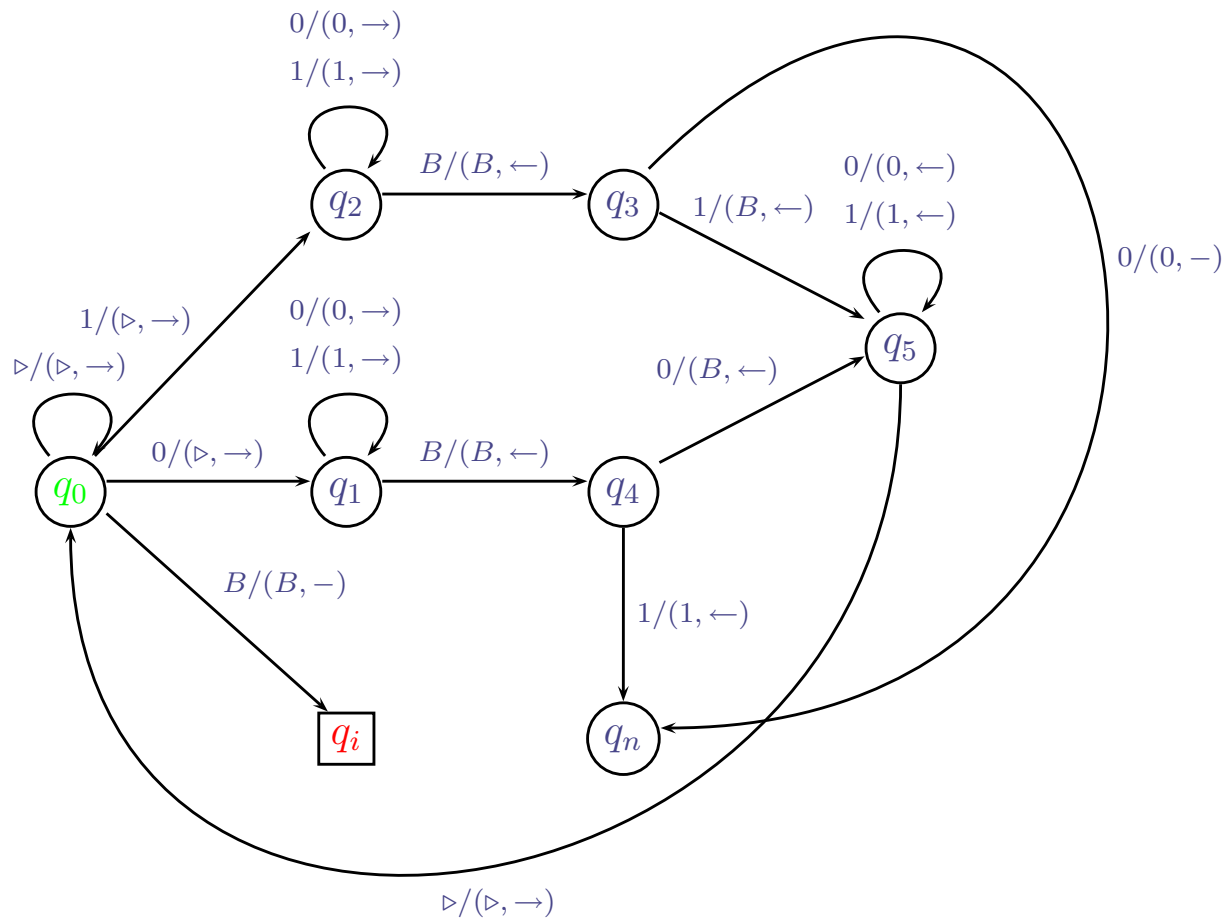
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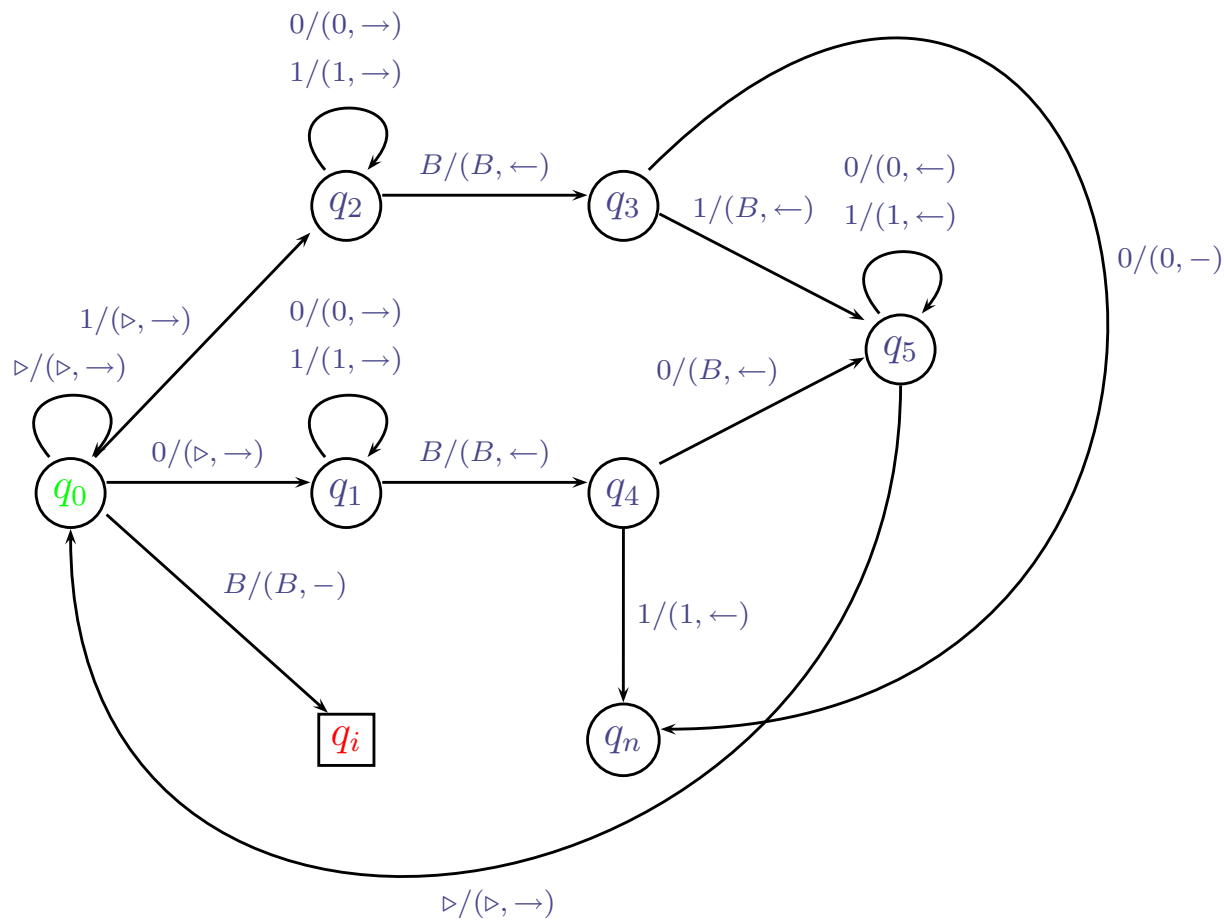
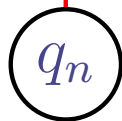
# A páros hosszúságú palindromákat eldöntő Turing-gép



# A páros hosszúságú palindromákat eldöntő Turing-gép



# A páros hosszúságú palindromákat eldöntő Turing-gép



# A palindromákat eldöntő 2-szavas T-gép

$\langle \triangleright, \triangleright \rangle / (\langle \triangleright, \triangleright \rangle, \langle \rightarrow, \rightarrow \rangle)$

$\langle 0, B \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \rightarrow \rangle)$

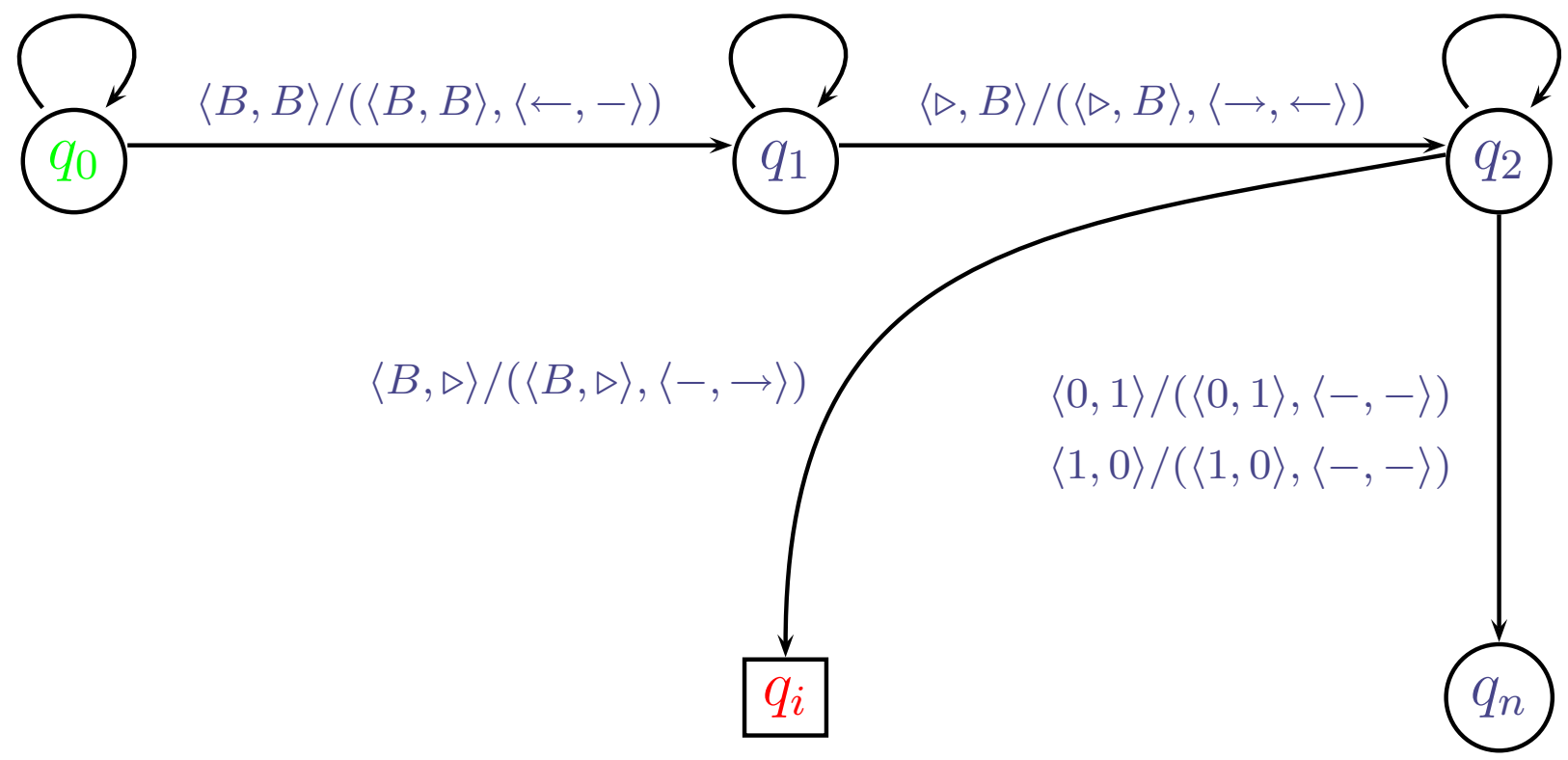
$\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$

$\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$

$\langle 1, B \rangle / (\langle 1, B \rangle, \langle \leftarrow, - \rangle)$

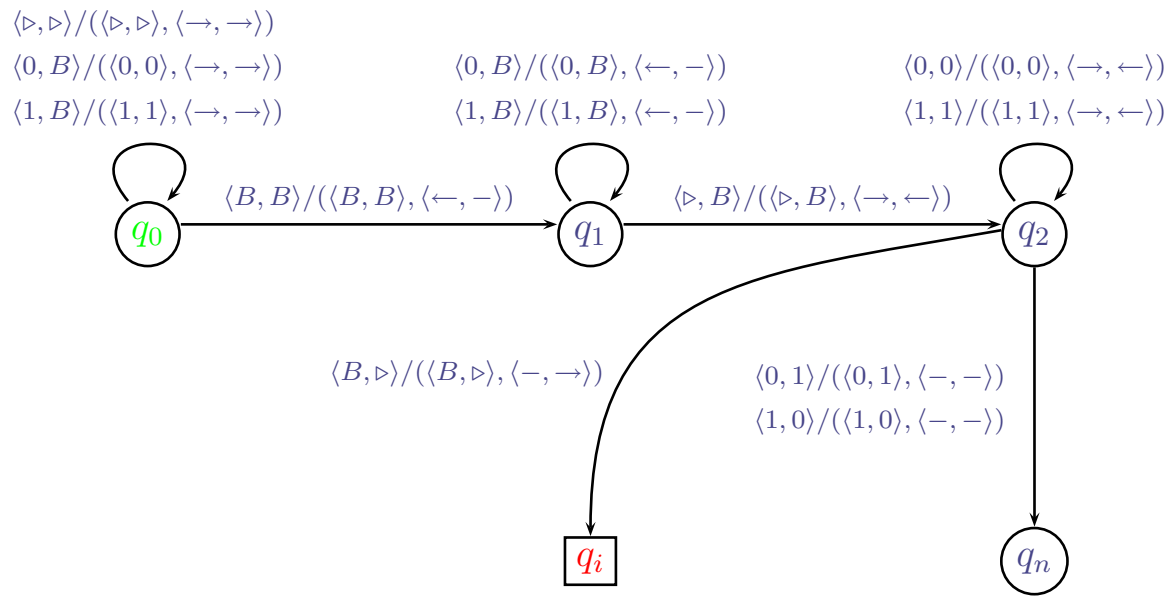
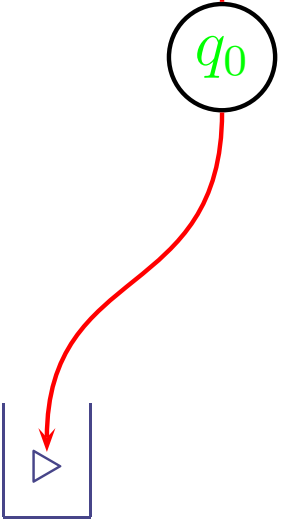
$\langle 0, 0 \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \leftarrow \rangle)$

$\langle 1, 1 \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \leftarrow \rangle)$

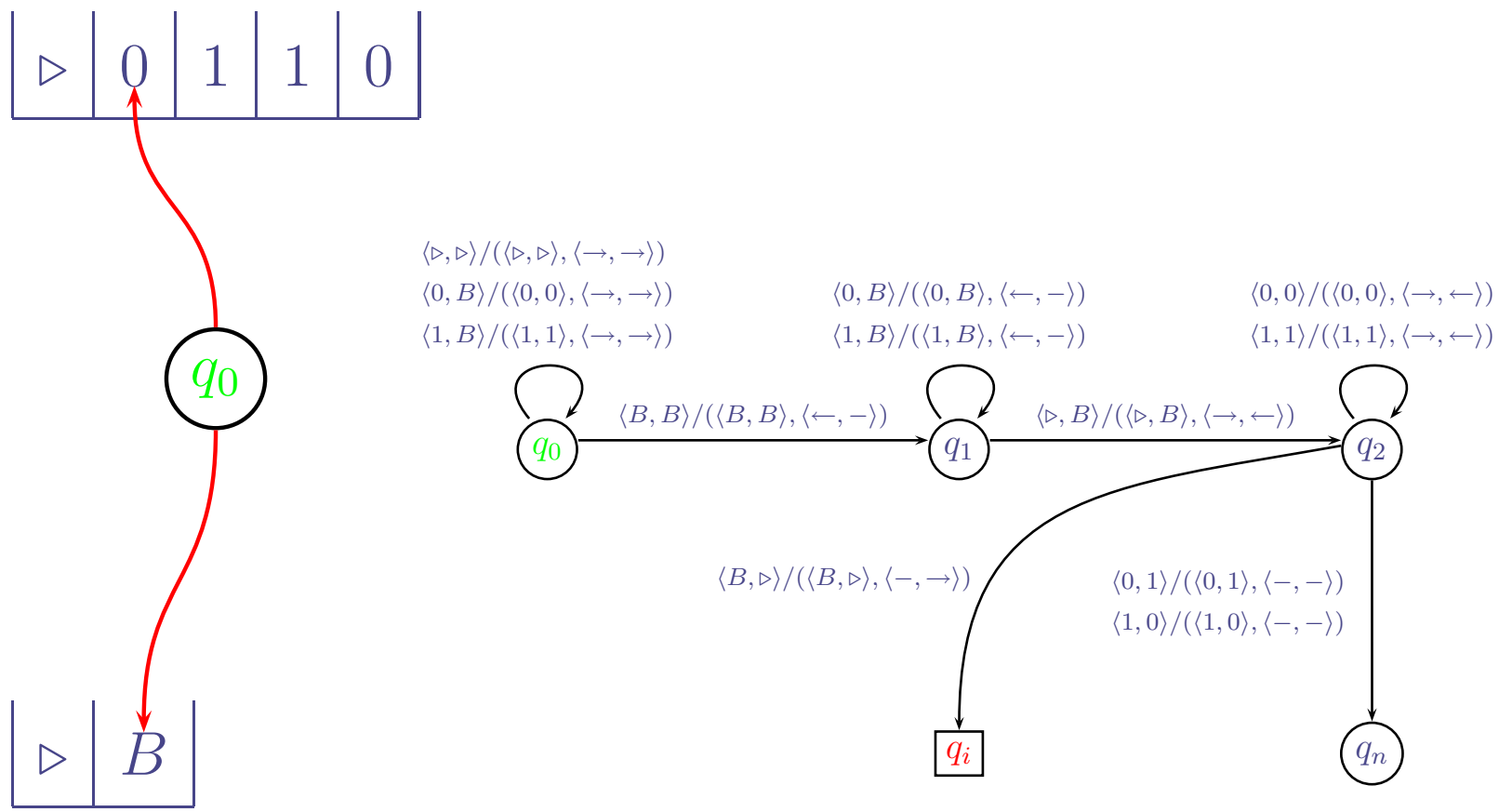




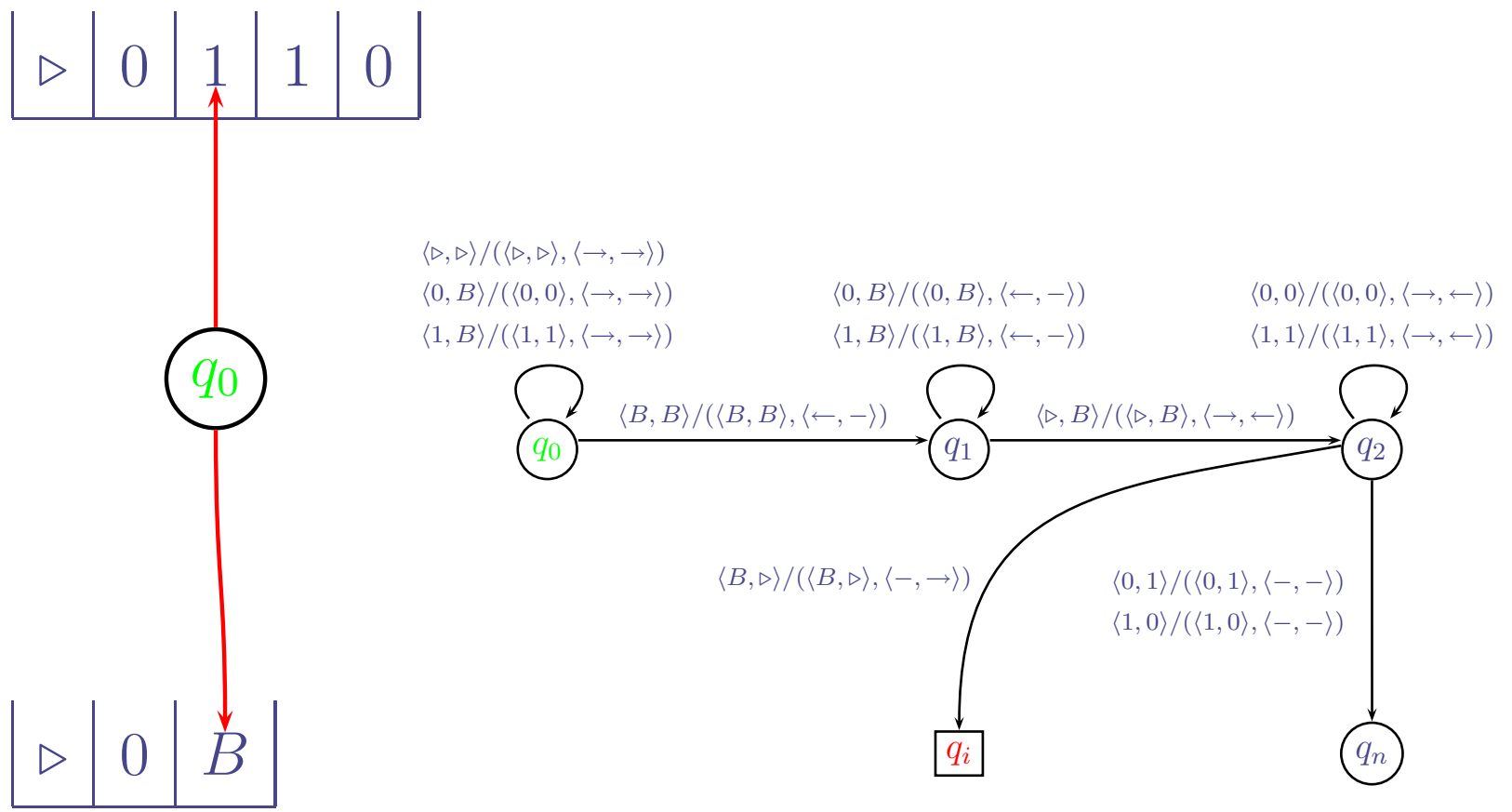
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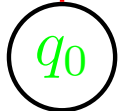
# A palindromákat eldöntő 2-szavas T-gép



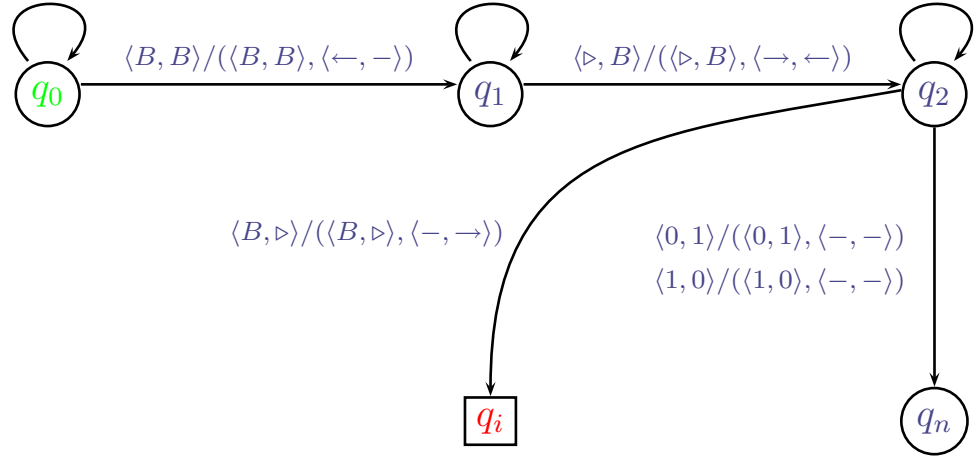
# A palindromákat eldöntő 2-szavas T-gép



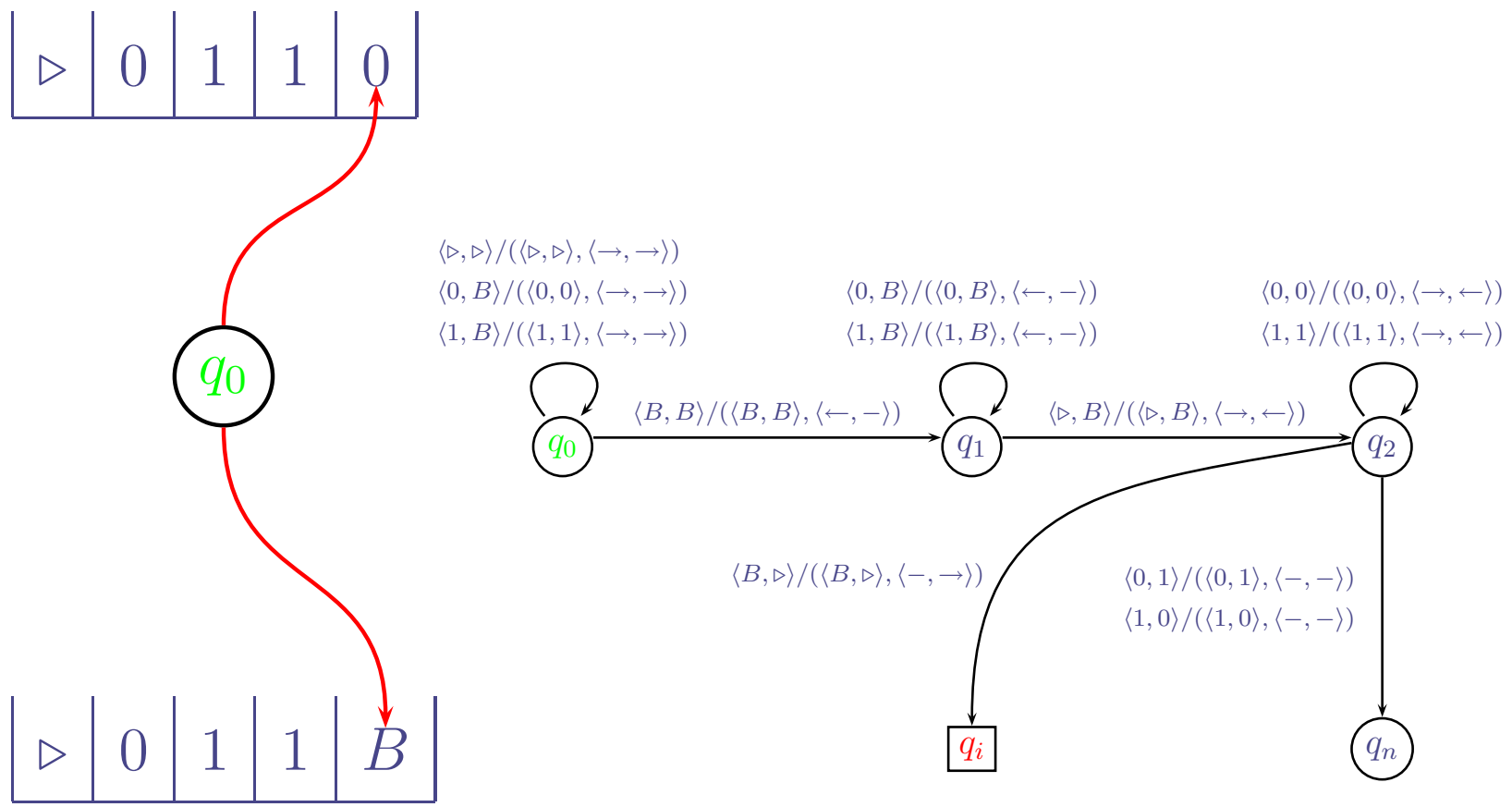
# A palindromákat eldöntő 2-szavas T-gép



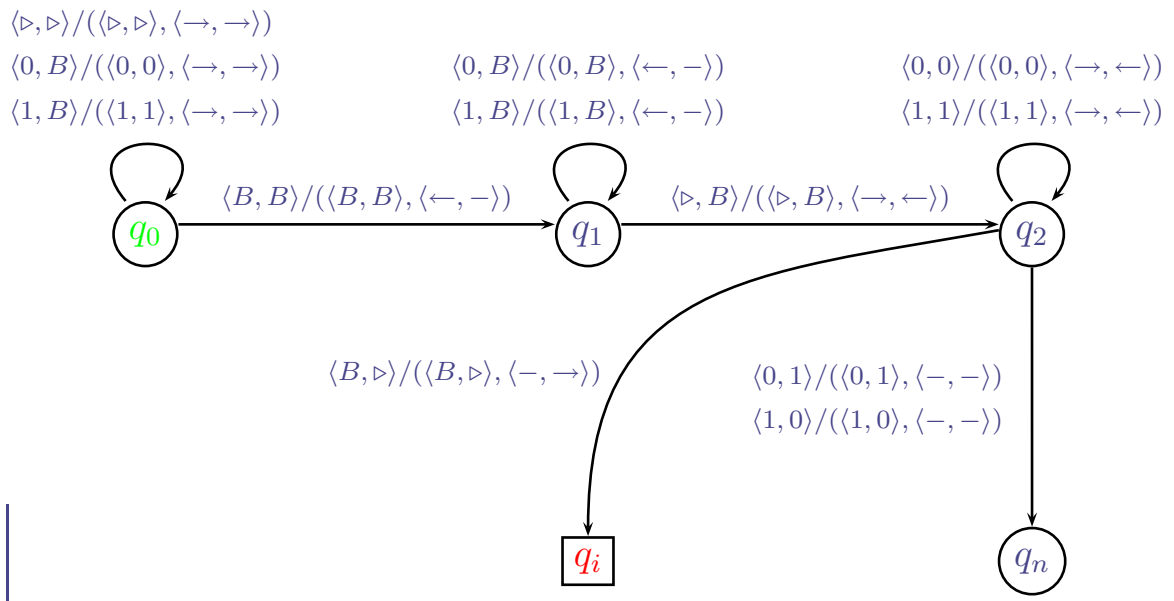
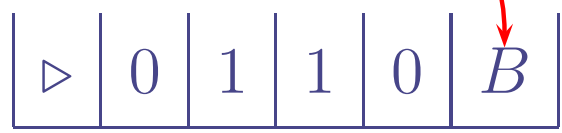
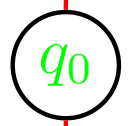
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- $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$
- $\langle 1, B \rangle / (\langle 1, B \rangle, \langle \leftarrow, - \rangle)$
- $\langle 0, 0 \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \leftarrow \rangle)$
- $\langle 1, 1 \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \leftarrow \rangle)$



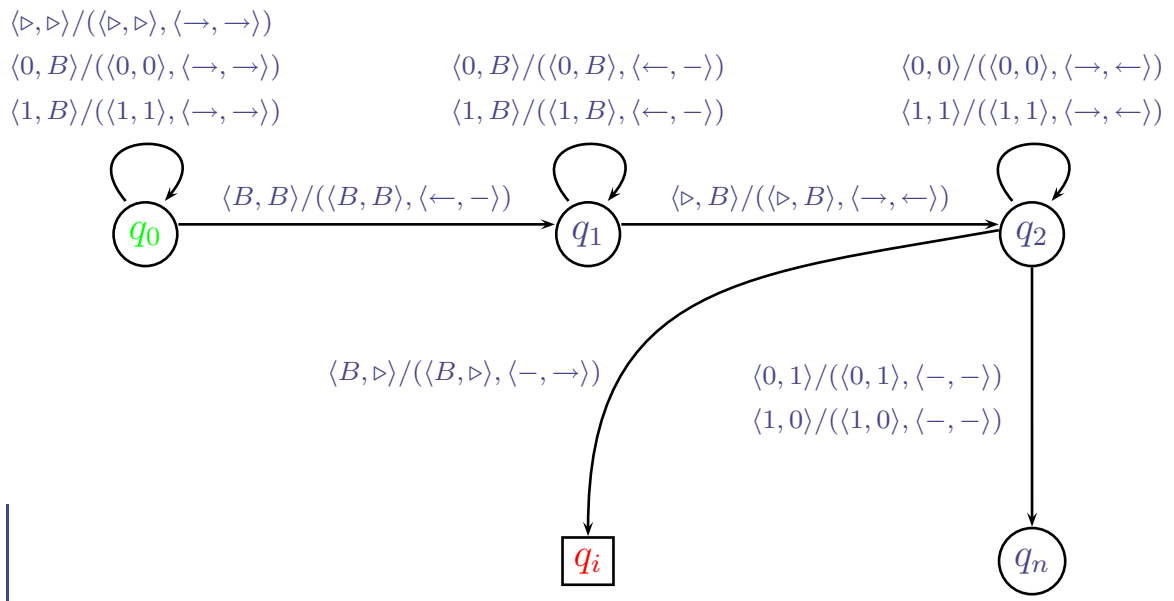
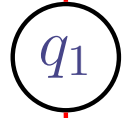
# A palindromákat eldöntő 2-szavas T-gép



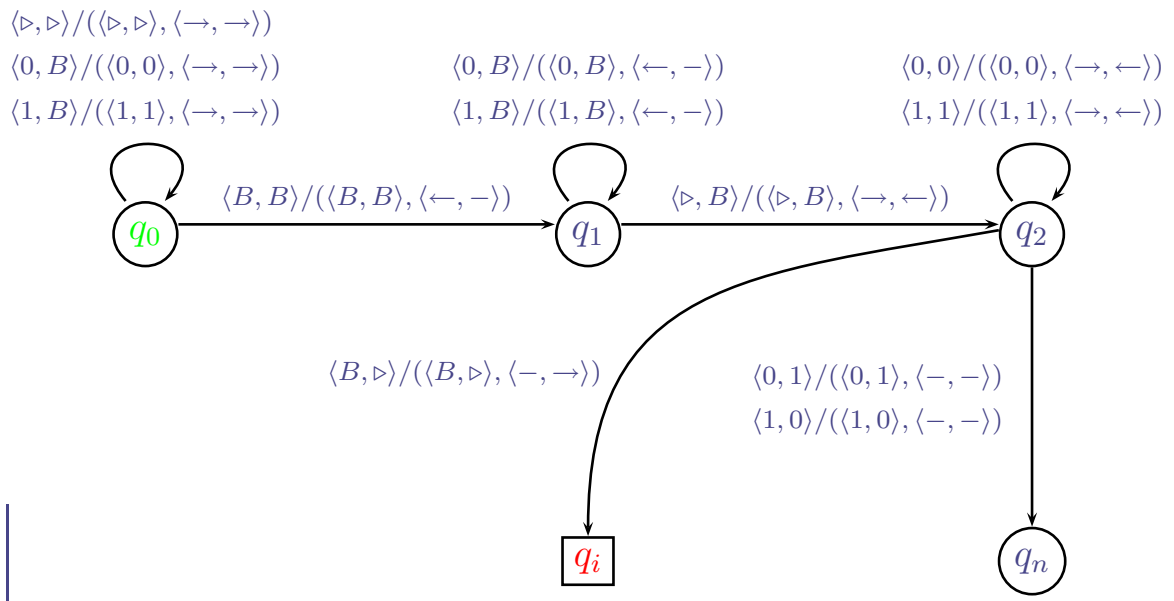
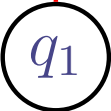
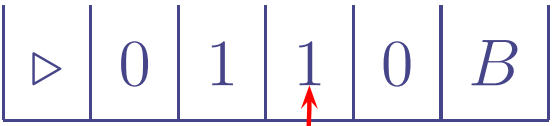
# A palindromákat eldöntő 2-szavas T-gép



# A palindromákat eldöntő 2-szavas T-gép

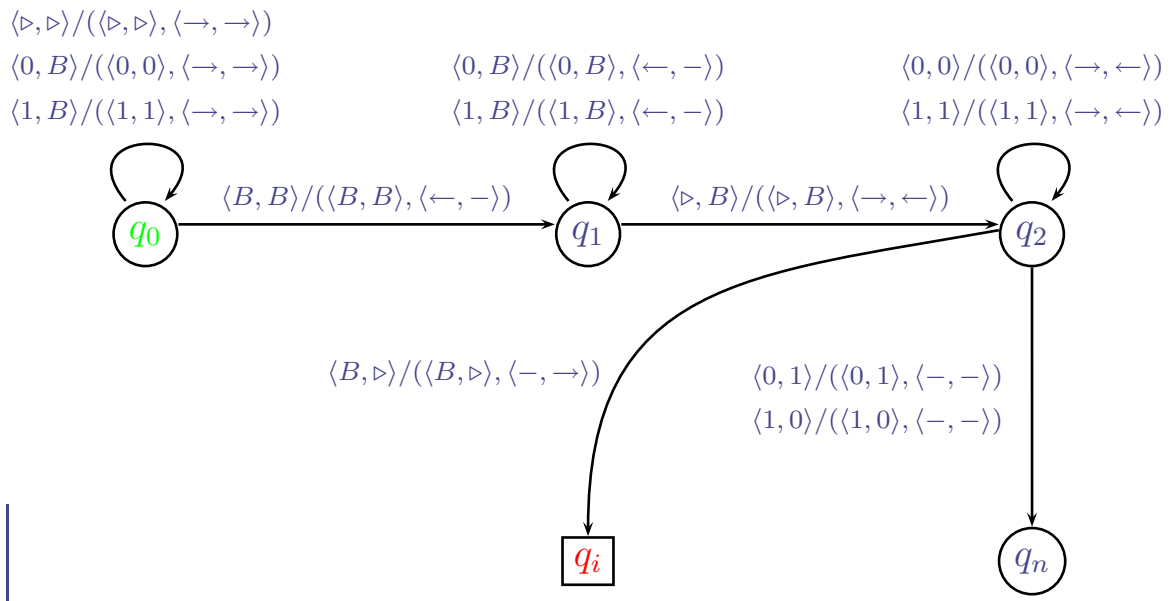
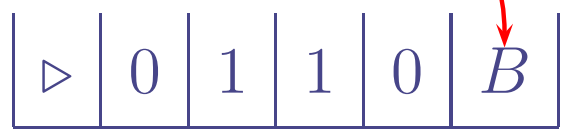
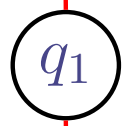
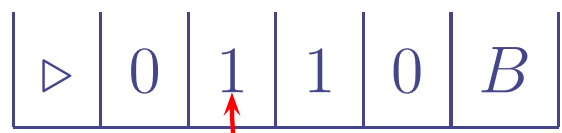


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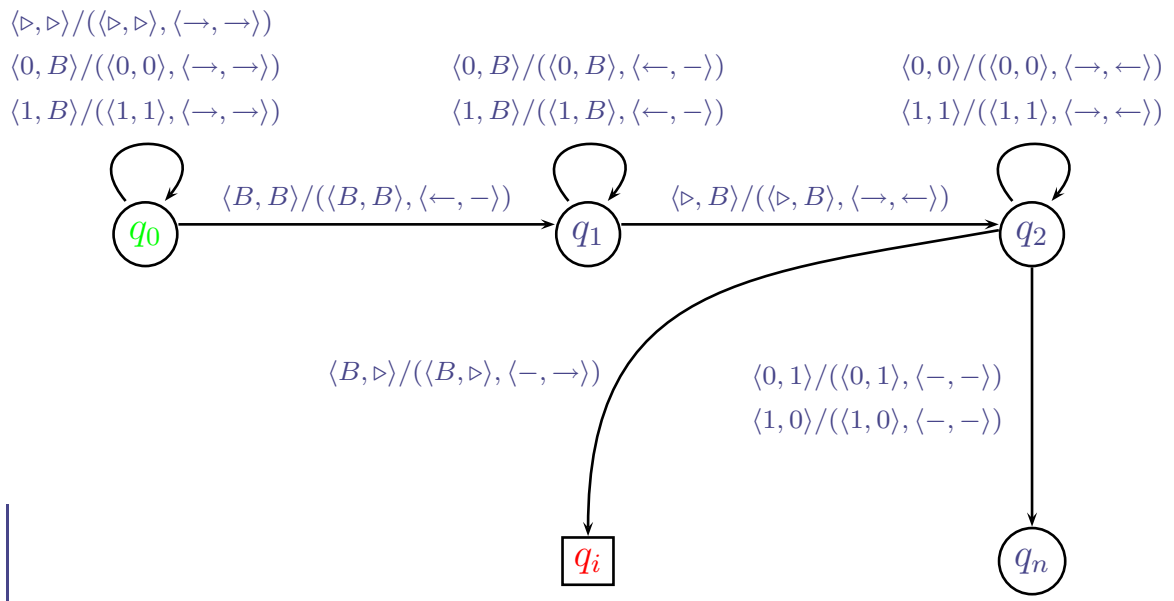




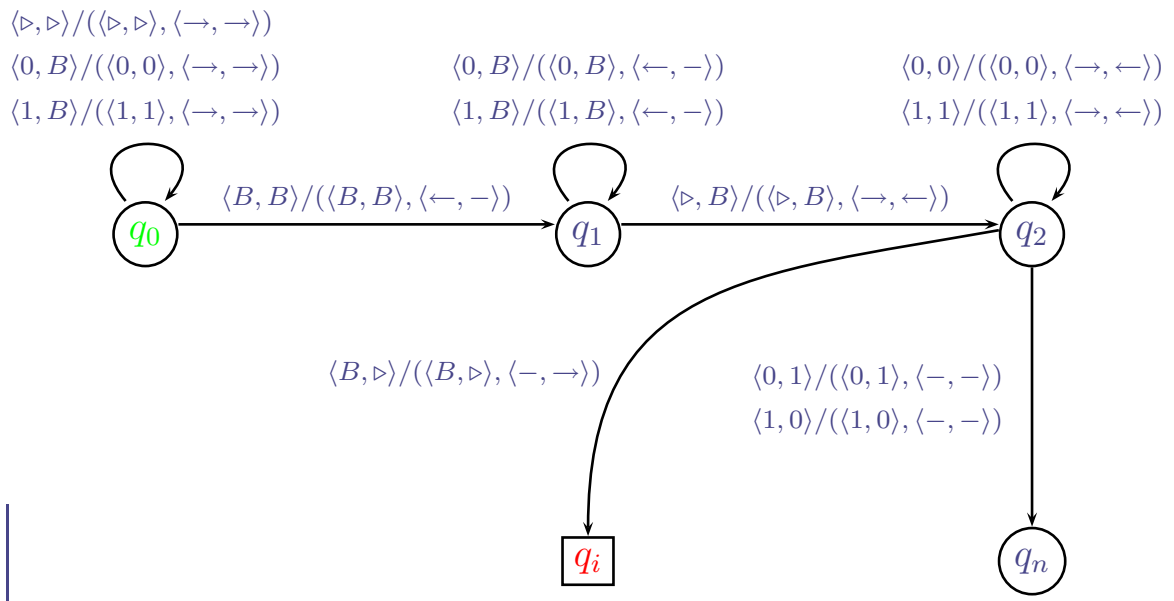
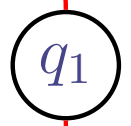
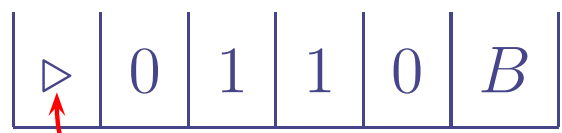
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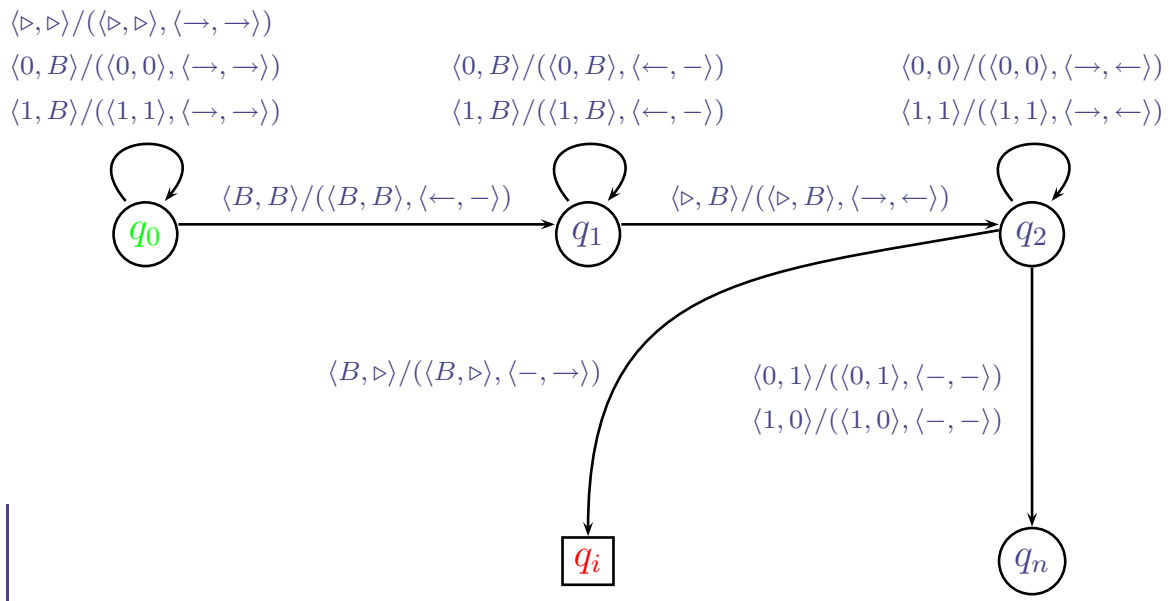
# A palindromákat eldöntő 2-szavas T-gép



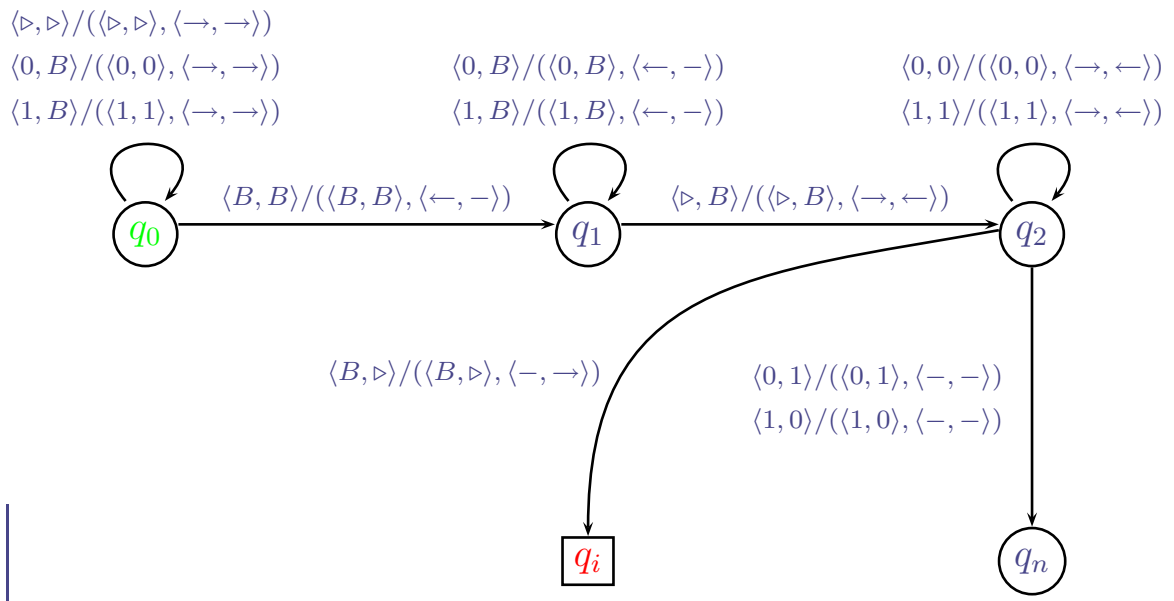
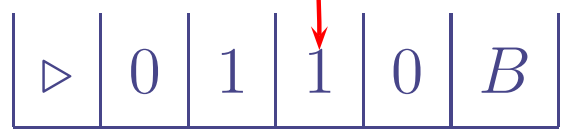
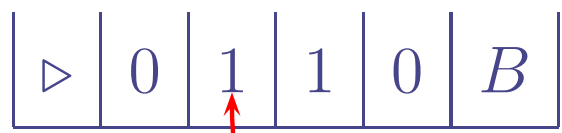
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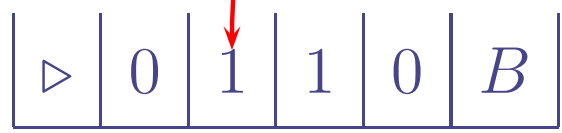
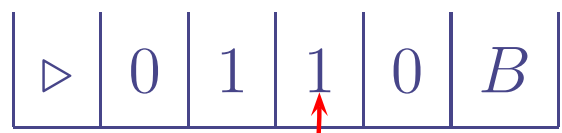
# A palindromákat eldöntő 2-szavas T-gép



# A palindromákat eldöntő 2-szavas T-gép



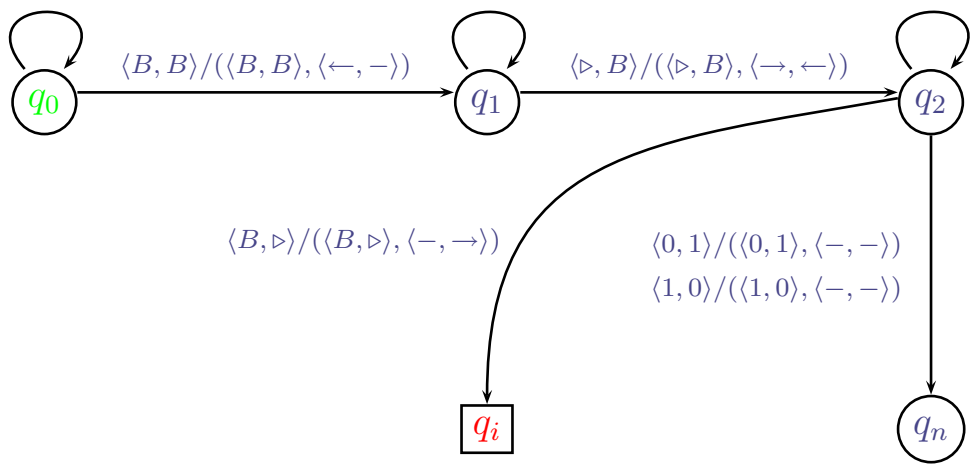
# A palindromákat eldöntő 2-szavas T-gép



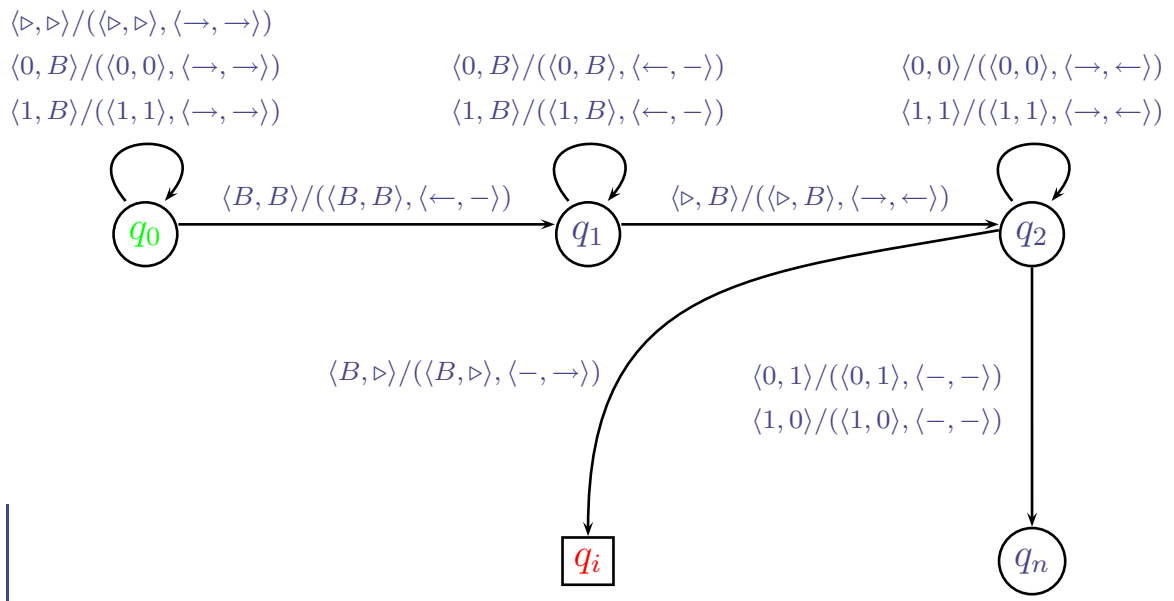
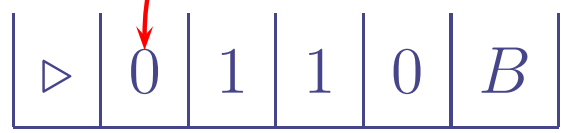
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 $\langle 0, B \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \rightarrow \rangle)$   
 $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$

$\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$   
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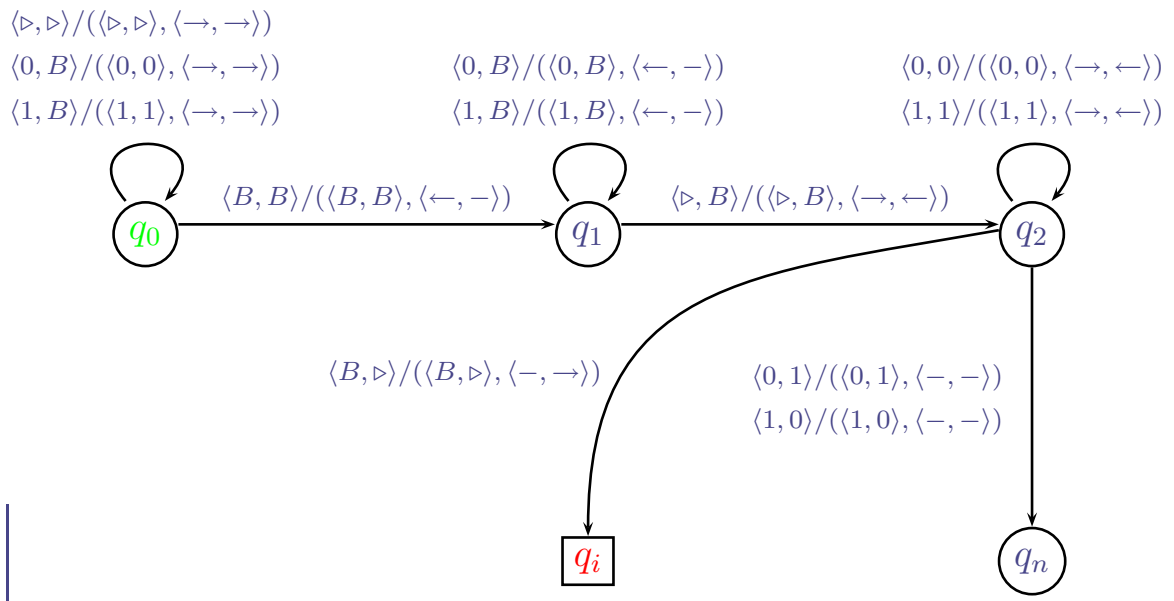
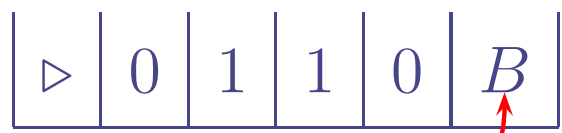
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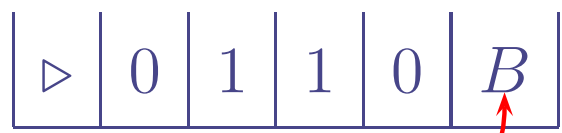


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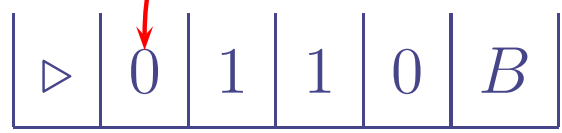




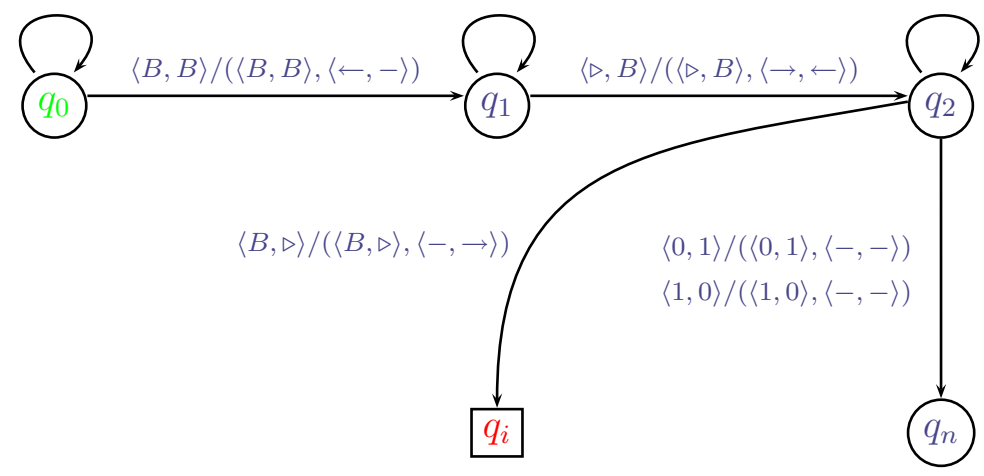
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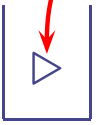
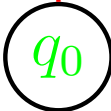
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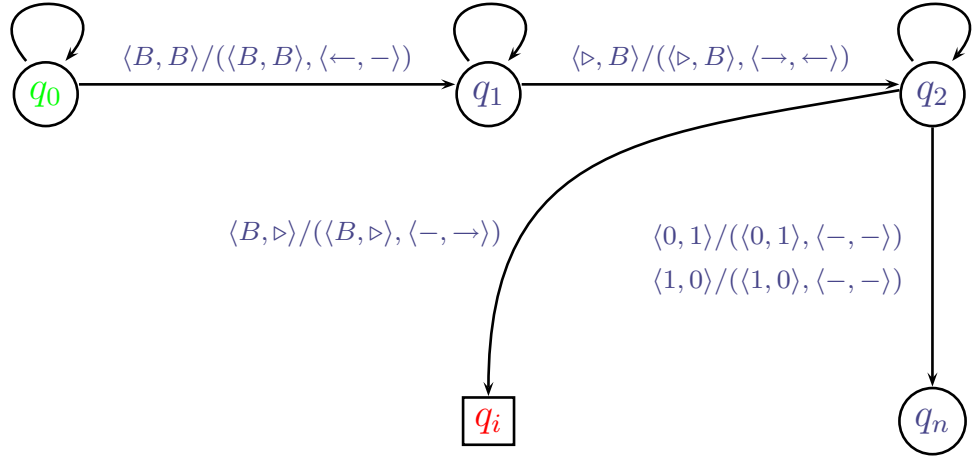
- $\langle \triangleright, \triangleright \rangle / (\langle \triangleright, \triangleright \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 0, B \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$
- $\langle 1, B \rangle / (\langle 1, B \rangle, \langle \leftarrow, - \rangle)$
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- $\langle 1, 1 \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \leftarrow \rangle)$



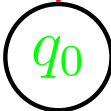
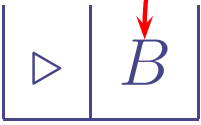
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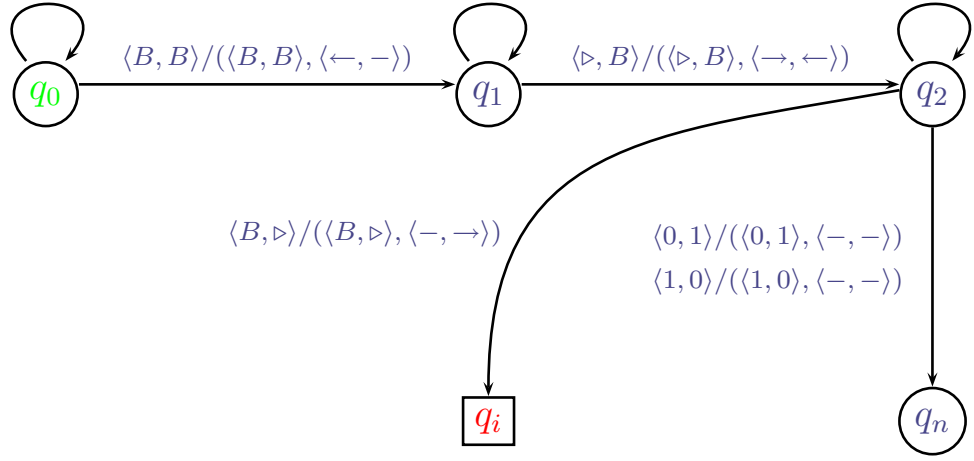
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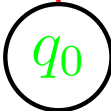
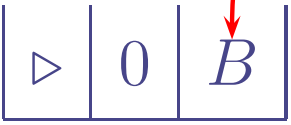
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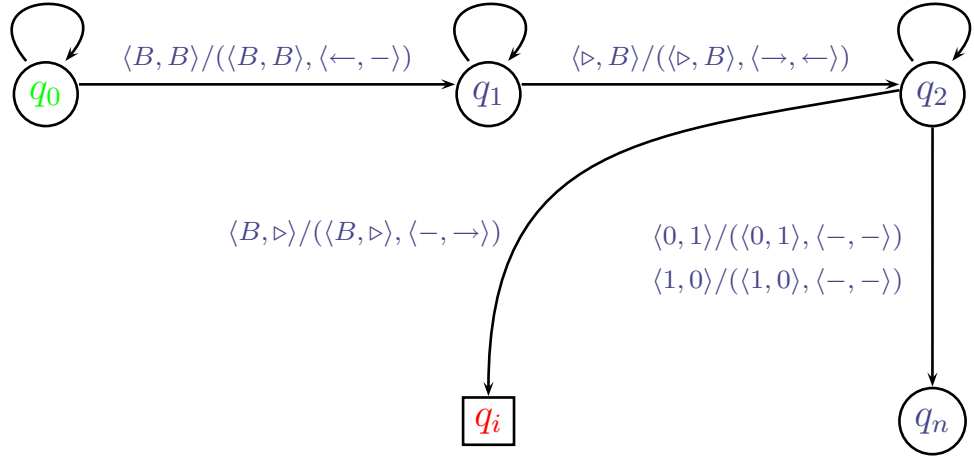
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- $\langle 0, B \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$
- $\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$
- $\langle 1, B \rangle / (\langle 1, B \rangle, \langle \leftarrow, - \rangle)$
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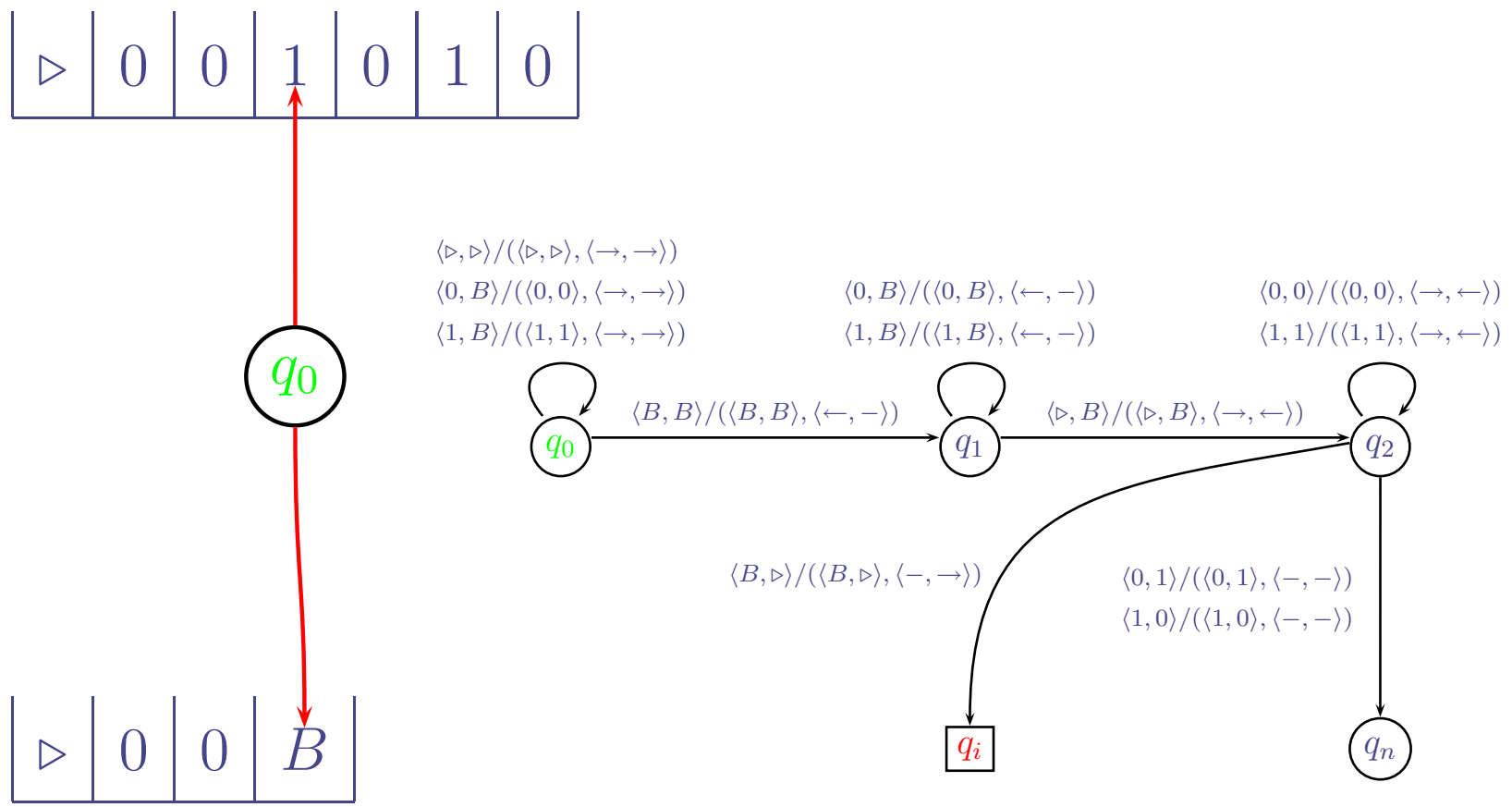
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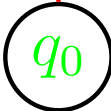
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- $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$
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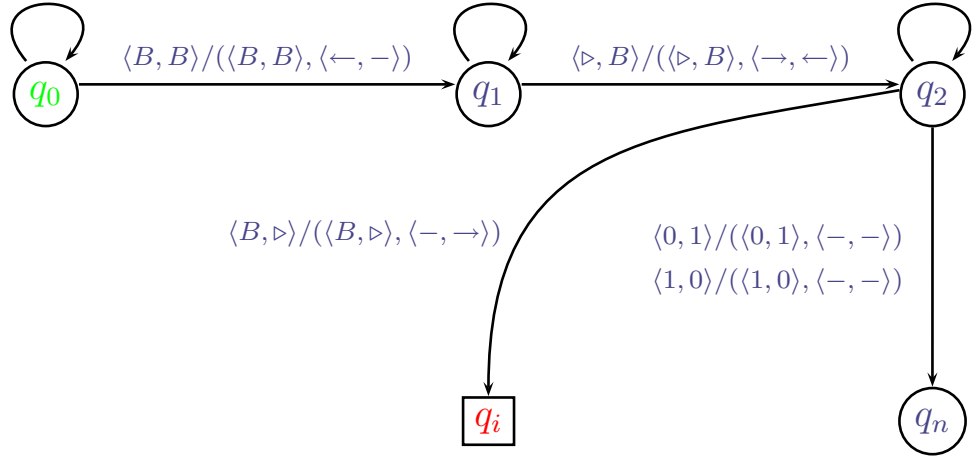
# A palindromákat eldöntő 2-szavas T-gép



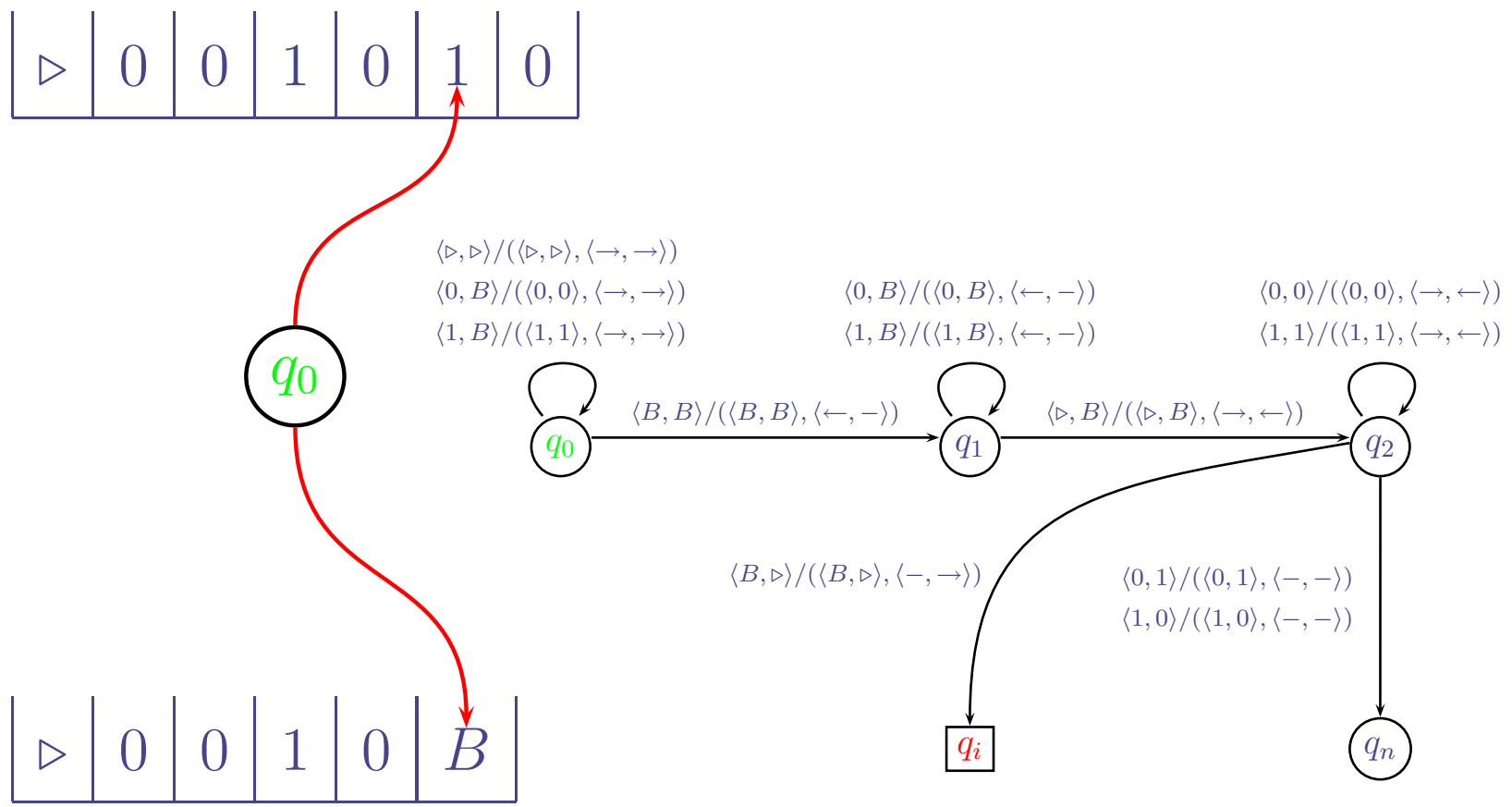
# A palindromákat eldöntő 2-szavas T-gép



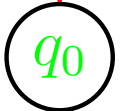
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- $\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$
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# A palindromákat eldöntő 2-szavas T-gép



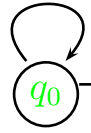
# A palindromákat eldöntő 2-szavas T-gép



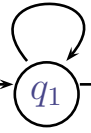
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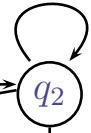
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$\langle B, B \rangle / (\langle B, B \rangle, \langle \leftarrow, - \rangle)$



$\langle \triangleright, B \rangle / (\langle \triangleright, B \rangle, \langle \rightarrow, \leftarrow \rangle)$



$\langle B, \triangleright \rangle / (\langle B, \triangleright \rangle, \langle -, \rightarrow \rangle)$

$\langle 0, 1 \rangle / (\langle 0, 1 \rangle, \langle -, - \rangle)$   
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# A palindromákat eldöntő 2-szavas T-gép



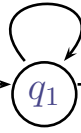
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$\langle 0, B \rangle / (\langle 0, B \rangle, \langle \leftarrow, - \rangle)$   
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$\langle 0, 0 \rangle / (\langle 0, 0 \rangle, \langle \rightarrow, \leftarrow \rangle)$   
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$\langle B, B \rangle / (\langle B, B \rangle, \langle \leftarrow, - \rangle)$



$\langle \triangleright, B \rangle / (\langle \triangleright, B \rangle, \langle \rightarrow, \leftarrow \rangle)$

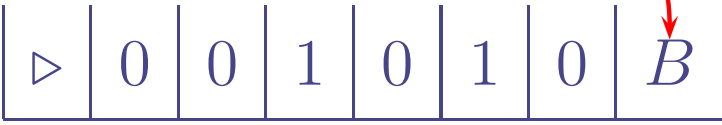
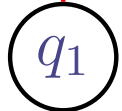


$\langle B, \triangleright \rangle / (\langle B, \triangleright \rangle, \langle -, \rightarrow \rangle)$

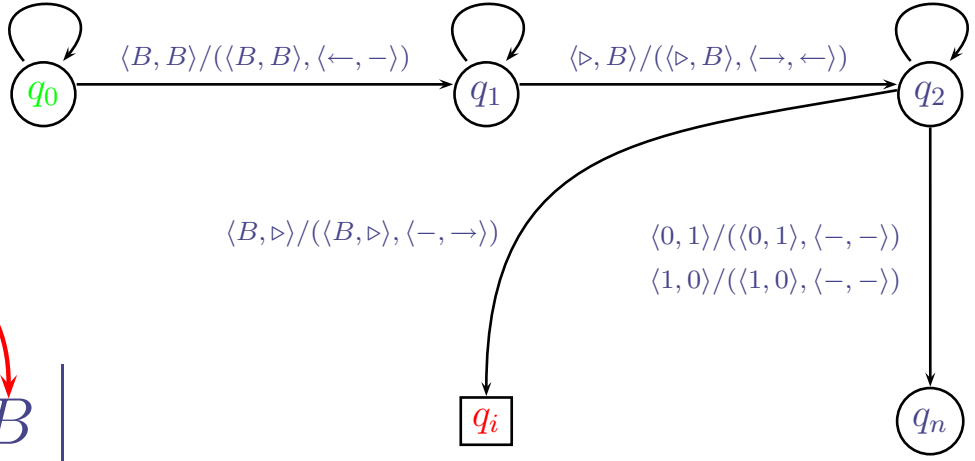
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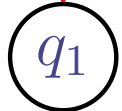
# A palindromákat eldöntő 2-szavas T-gép



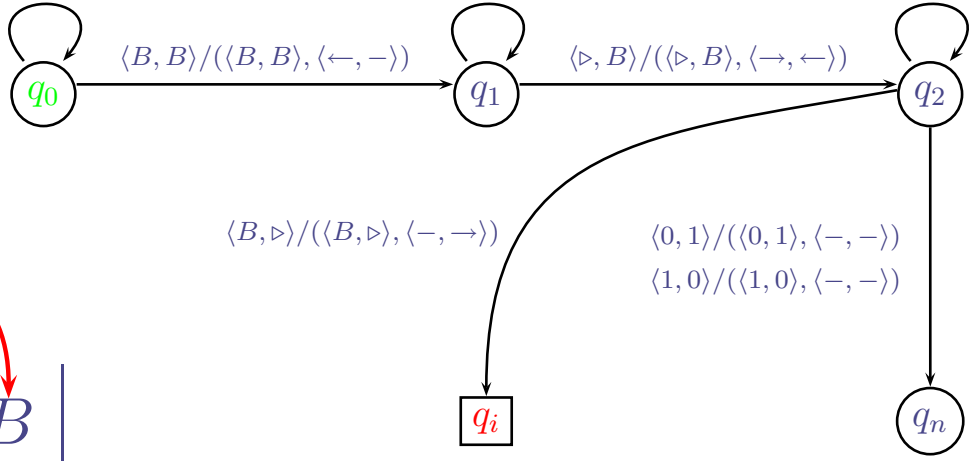
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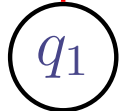
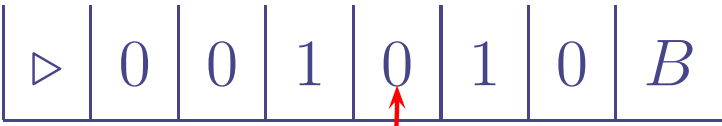
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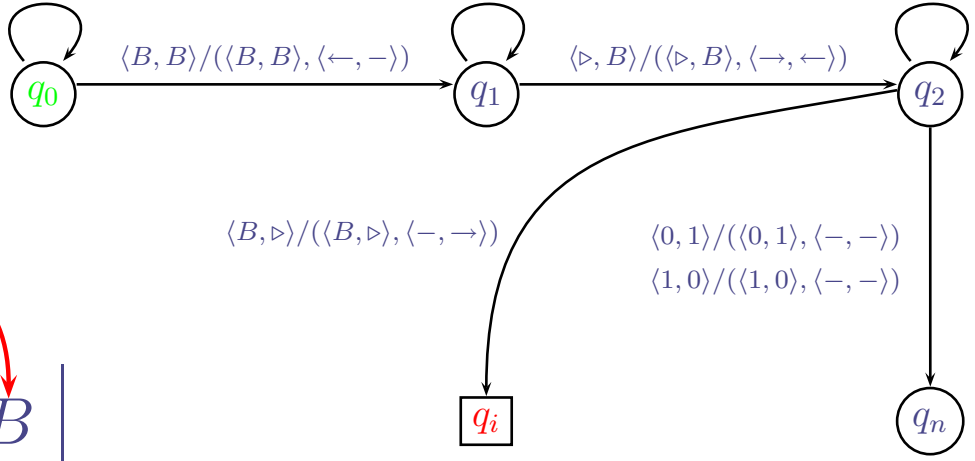
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- $\langle 1, B \rangle / (\langle 1, 1 \rangle, \langle \rightarrow, \rightarrow \rangle)$
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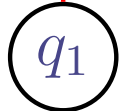
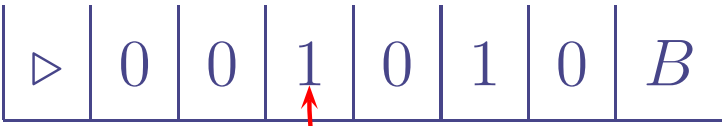
# A palindromákat eldöntő 2-szavas T-gép



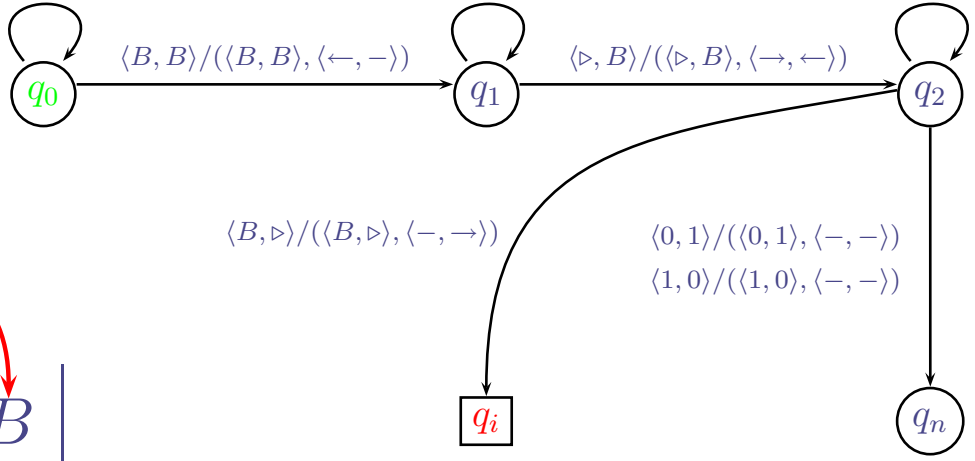
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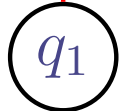
# A palindromákat eldöntő 2-szavas T-gép



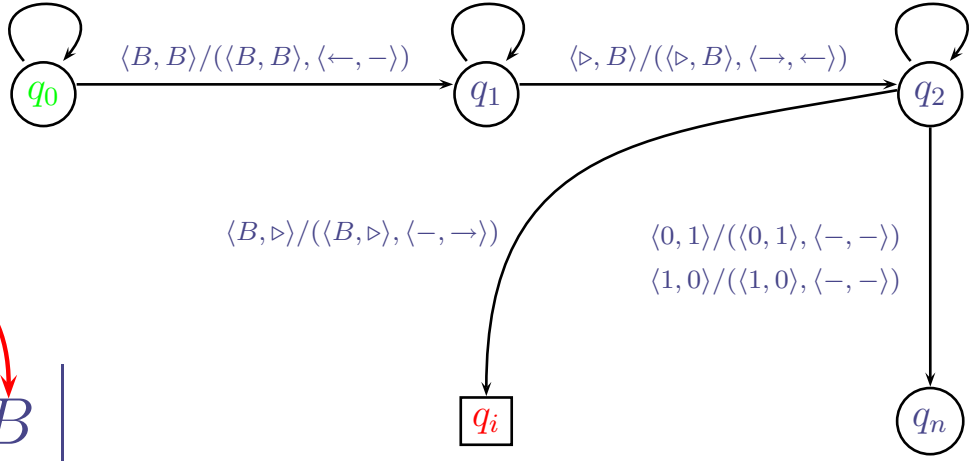
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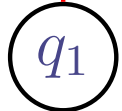
# A palindromákat eldöntő 2-szavas T-gép



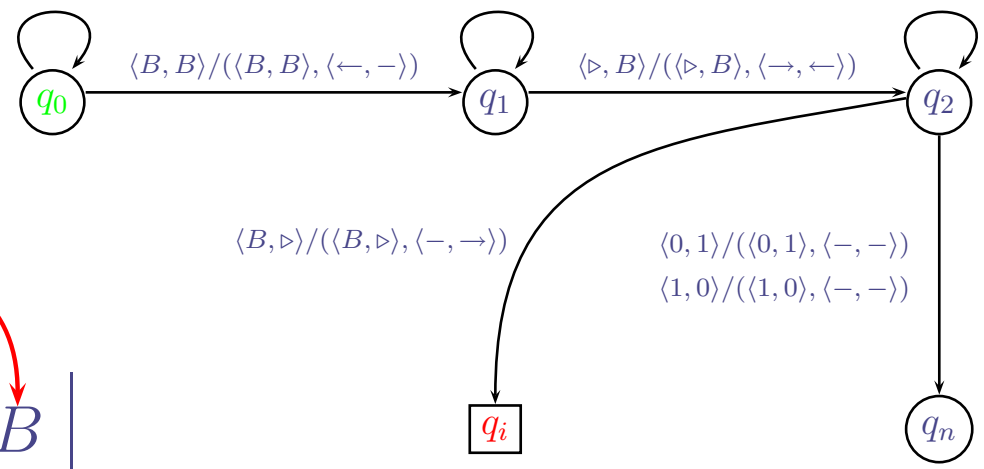
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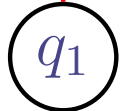
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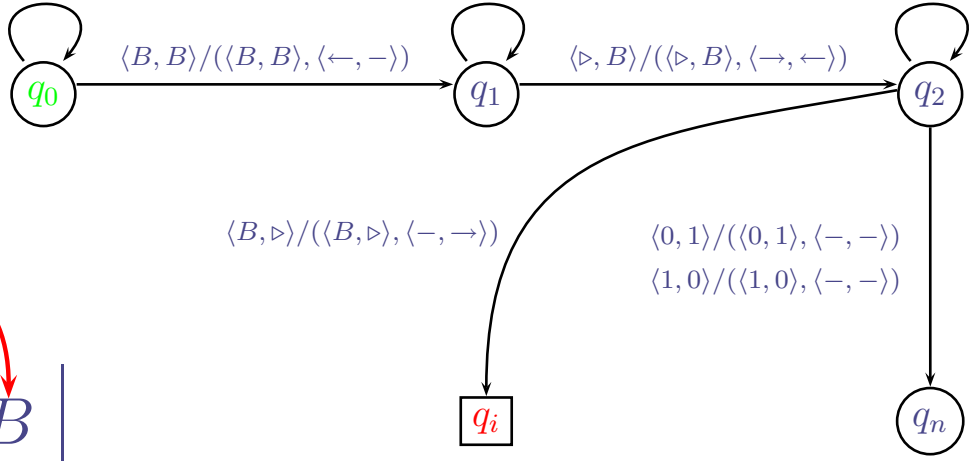
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# A palindromákat eldöntő 2-szavas T-gép



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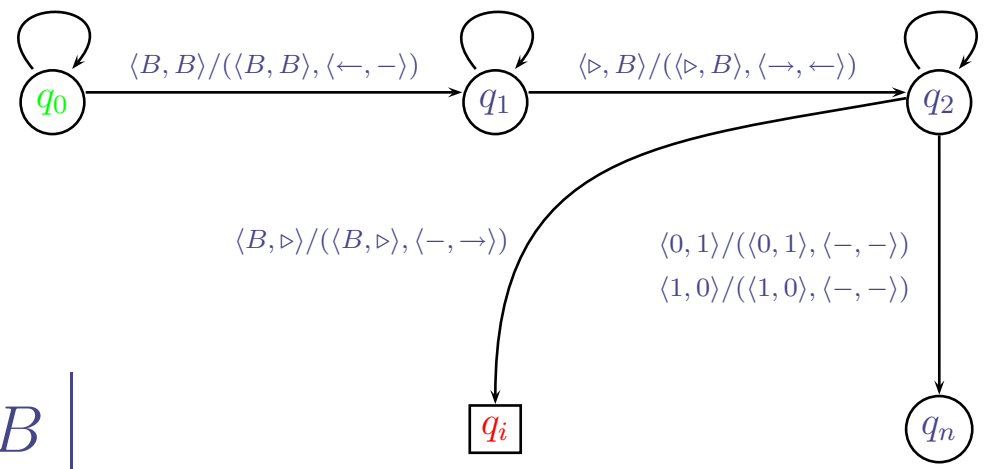




# A palindromákat eldöntő 2-szavas T-gép



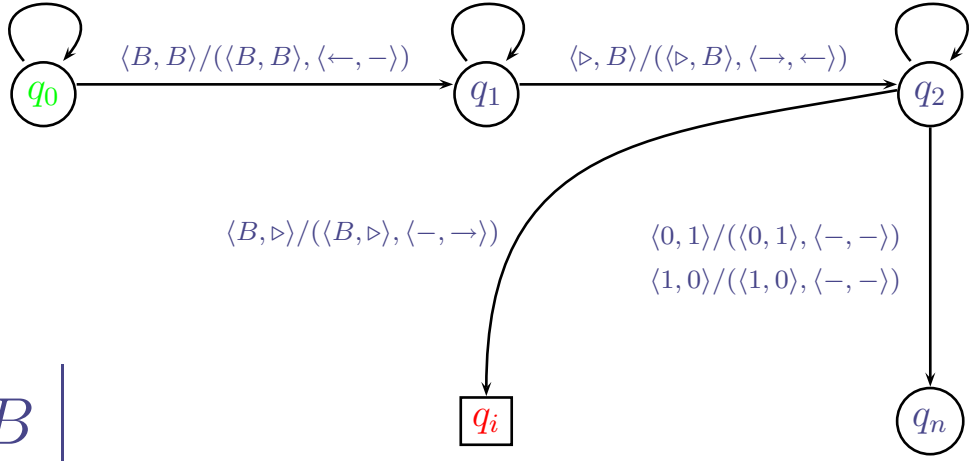
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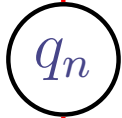
# A palindromákat eldöntő 2-szavas T-gép



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# A palindromákat eldöntő 2-szavas T-gép



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