

BWMATCHING(*FirstColumn*, *LastColumn*, *Pattern*, LASTTOFIRST)

$top \leftarrow 0$

$bottom \leftarrow |LastColumn| - 1$

while $top \leq bottom$

if *Pattern* is nonempty

$symbol \leftarrow$ last letter in *Pattern*

 remove last letter from *Pattern*

if positions from top to $bottom$ in *LastColumn* contain $symbol$

$topIndex \leftarrow$ first position of $symbol$ among positions from top to $bottom$
 in *LastColumn*

$bottomIndex \leftarrow$ last position of $symbol$ among positions from top to
 $bottom$ in *LastColumn*

$top \leftarrow$ LASTTOFIRST($topIndex$)

$bottom \leftarrow$ LASTTOFIRST($bottomIndex$)

else

return 0

else

return $bottom - top + 1$