In-
put:
$lengths$
$samplespecificstrings$
$target$
$reference$
Output:
$target$
$reverted \leftarrow$
[]
$i \leftarrow$
1
$\leftarrow$
$indexes[i]$
$k \leftarrow$
$indexes[i+$
1]
$j ==$
-1
$k ==$
-1
CON-
TINUE
$middle \leftarrow$
$target[j+$
$lengths[i] :$
$k]$
$middle ==$
$\emptyset$
CON-
TINUE
$middle \leftarrow$
REVERT_AND_COMPLEMENT$(middle)$
$(found, start) \leftarrow$
CHECK_SUBSTRING$(reference, middle)$
$found$
$leftincrement \leftarrow$
1
$leftincrement \leq$
$lengths[i]$
$(j+$
$lengths[i]-$
$leftincrement) \geq$
0
$target[j+$
$lengths[i]-$
$leftincrement] ==$
REVERT_AND_COMPLEMENT$(reference[start+$
$middle.length+$
$leftincrement-$
1])
$leftincrement \leftarrow$
$leftincrement+$
1
$leftbreakpoint \leftarrow$
$target[j+$
$lengths[i]-$
$leftincrement :$
$j+$
$lengths[i]-$
$leftincrement+$
2]
$rightincrement \leftarrow$
0
$rightincrement <$
$(reference.length-$
$start-$
$len(middle))$
$(k+$
$rightincrement) <$
$target.length$
$target[k+$
$rightincrement] ==$
REVERT_AND_COMPLEMENT$(reference[start-$
$1-$
$rightincrement])$
$rightincrement \leftarrow$
$rightincrement+$
1
$rightbreakpoint \leftarrow$
$target[k+$
$rightincrement-$
$1 :$
$k+$
$rightincrement+$
1]
PRINT
$leftbreakpoint$