

BWT Search

BWTSearch(aba) Start from the **end** of the pattern

Step 1: Find the range of “a”s in the first column

Step 2: Look at the same range in the last column.

Step 3: “b” is the next pattern character. Set B = the LF mapping entry for b in the first row of the range.

Set E = the LF mapping entry for b in the last + 1 row of the range.

Step 4: Find the range for “b” in the first row, and use B and E to find the right subrange within the “b” range.

		LF Mapping								
		Σ								
BWT(unabashable)		\$	a	b	e	h	l	n	s	u
	\$unabashable	0	0	0	0	0	0	0	0	0
→	abashable\$un	0	0	0	1	0	0	0	0	0
	able\$unabash	0	0	0	1	0	0	1	0	0
	ashable\$unab	0	0	0	1	1	0	1	0	0
→	bashable\$una	0	0	1	1	1	0	1	0	0
→	ble\$unabasha	0	1	1	1	1	0	1	0	0
	e\$unabashabl	0	2	1	1	1	0	1	0	0
	hable\$unabas	0	2	1	1	1	1	1	0	0
	le\$unabashab	0	2	1	1	1	1	1	1	0
	nabashable\$u	0	2	2	1	1	1	1	1	0
	shable\$unaba	0	2	2	1	1	1	1	1	1
	unabashable\$	0	3	2	1	1	1	1	1	1
		1	3	2	1	1	1	1	1	1