## Boyer-Moore: Putting it together

Use bad character or good suffix rule, whichever skips more

```
Step 1: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG
Step 2: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG
Step 3: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG
Step 4: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG
Step 4: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
GTAGCGGCG
Step 4: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
GTAGCGGCG
Step 4: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
GTAGCGGCG
```

## 11 characters of *T* we ignored

Step 1: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA

P: GTAGCGGCG

Step 2: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG

Step 3: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCG

Step 4: T: GTTATAGCTGATCGCGGCGTAGCGGCGAA
P: GTAGCGGCGAA

Skipped 15 alignments

## Boyer-Moore: Preprocessing

 $\mathbf{D}$ 

Pre-calculate skips. For bad character rule, P = TCGC:

		P			
		Т	C	G	С
Σ	Α	0	1	0	3
	C	0	ı	2	ı
	G	0	1	ı	0
		-	0	1	2

T: A ATC A A T A G C
P: TCGC