

Index of T

Johns

<u>CGTGC</u>: 0,4

GCGTG: 3

GTGCC: 1

GTGCT: 5

TGCCT: 2

TGCTT: 6

Multimap

T: CGTGCGTGCTT

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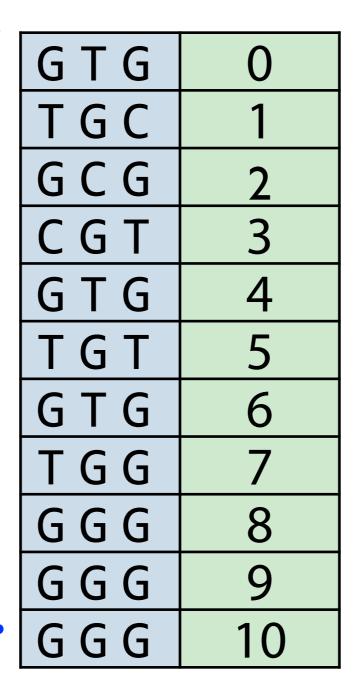


Multimap

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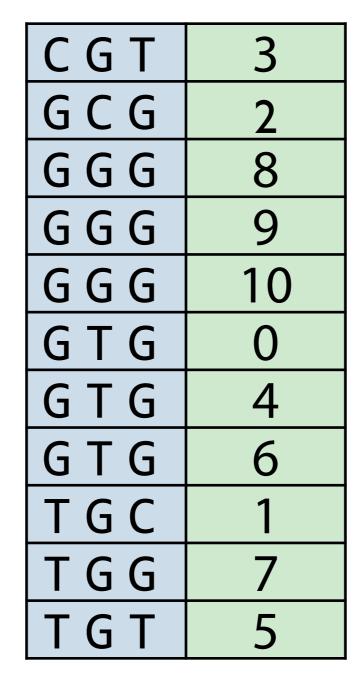
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TGC	1

GTG	0
TGC	1
GCG	2

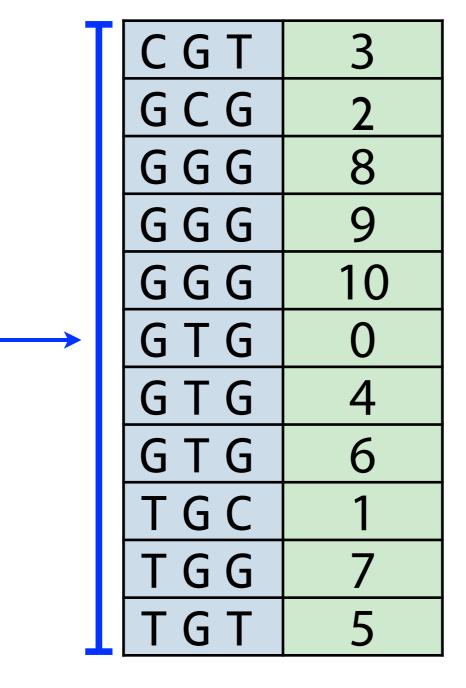


Alphabetical

by k-mer

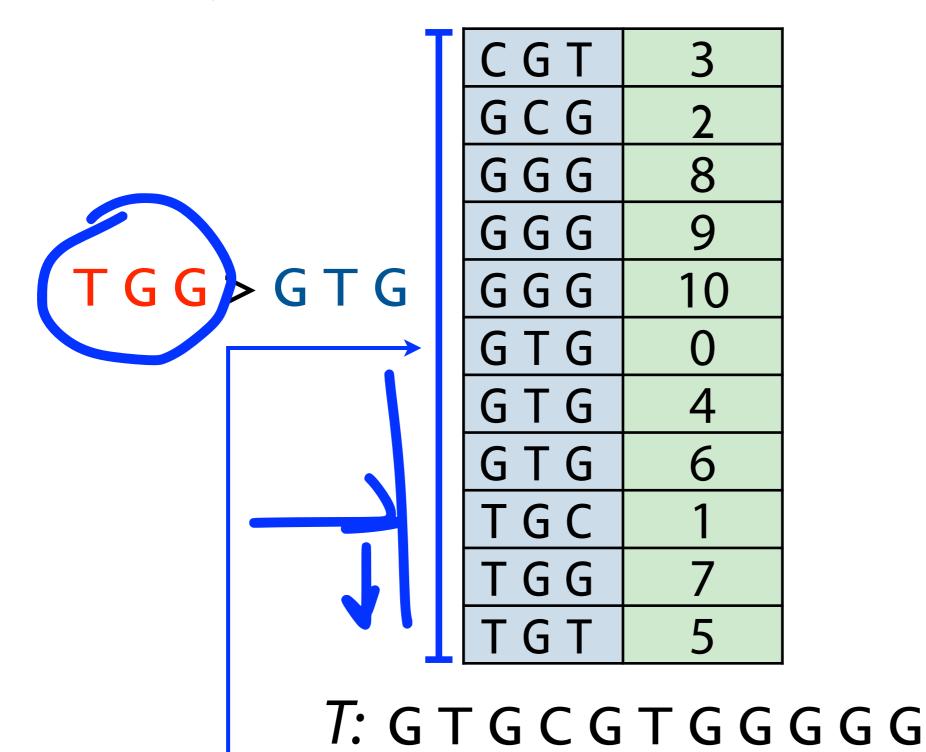


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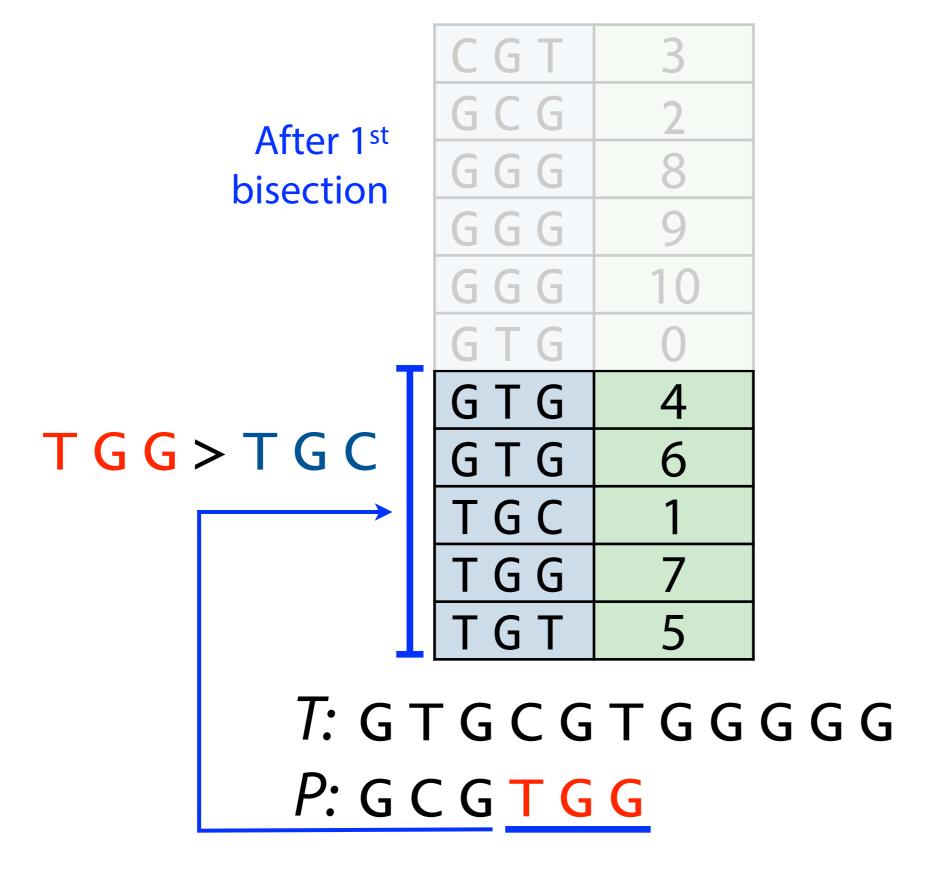


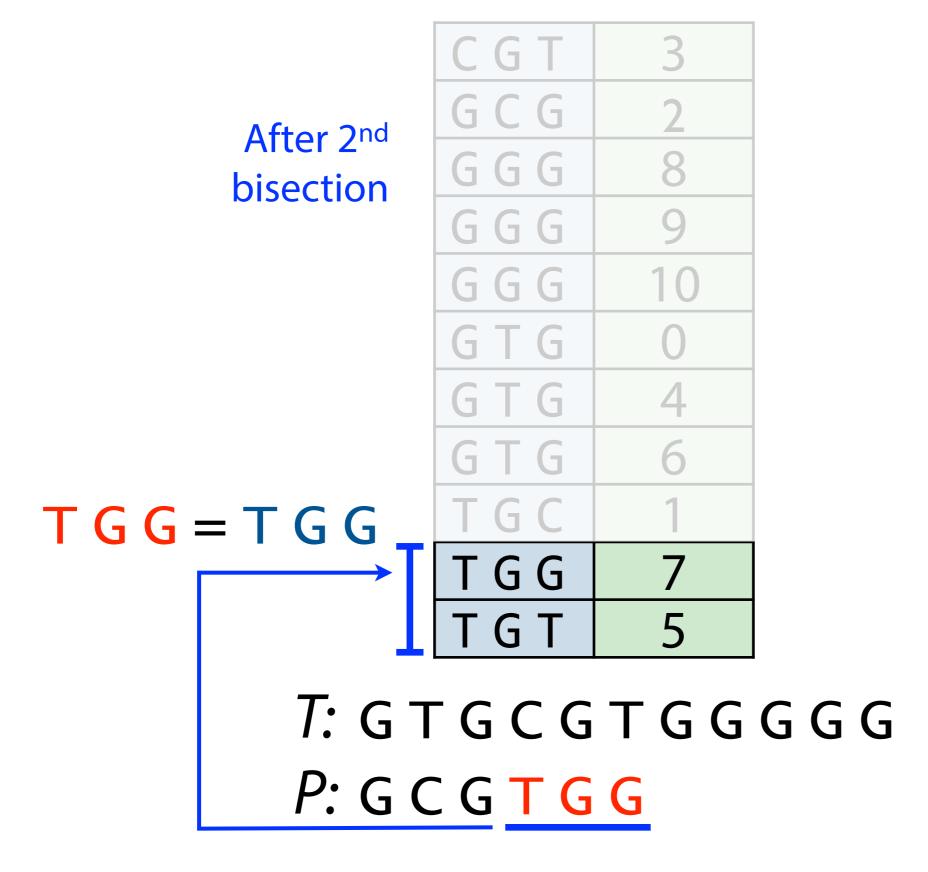
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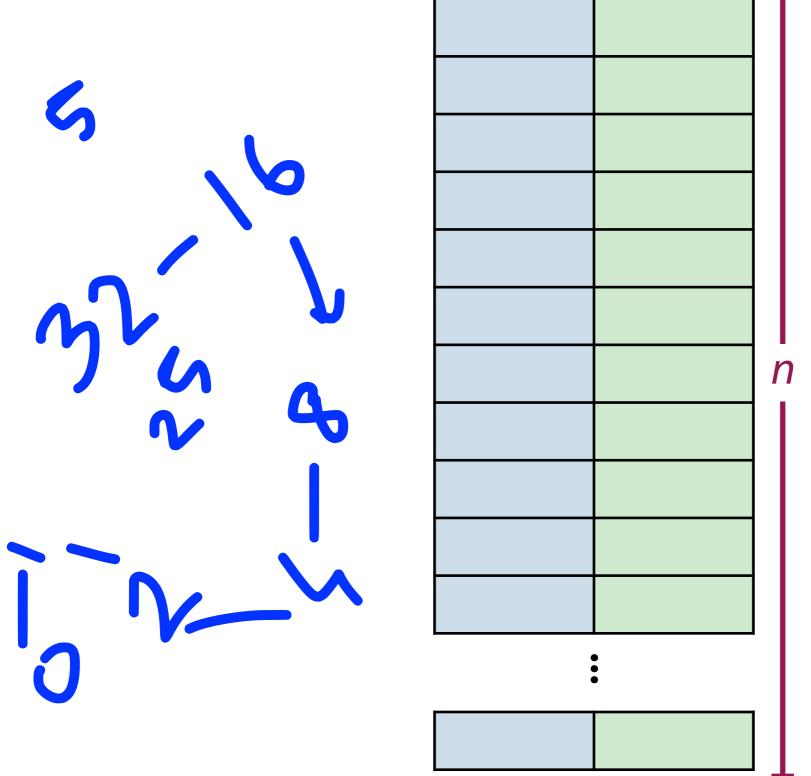
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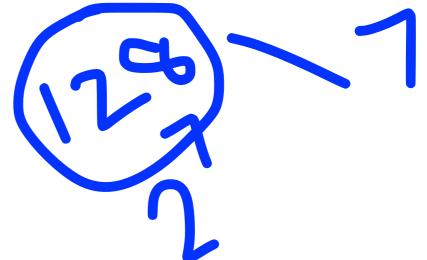


P: G C G T G G









 $\sim \log_2(n)$ bisections per query

bisect.bisect_left(a, x): Leftmost offset
where x can be inserted into a to maintain order

```
>>> a = [1, 3, 3, 6, 8, 8, 9, 10]
>>> import bisect
>>> bisect.bisect_left(a, 2)
1
>>> bisect.bisect_left(a, 4)
3
>>> bisect.bisect_left(a, 8)
4
```

bisect_left(index, 'GTG')

CGT	3
GCG	2
GGG	8
GGG	9
GGG	10
GTG	0
GTG	4
GTG	6
TGC	1
TGG	7
TGT	5

T: GTGCGTGGGG

P: G C G T G G