

3. use node() to find first character

*F*

\$	0
A	1
C	3
G	7
T	10

<i>v</i>	<i>i</i>	<i>L</i>	<i>Node</i>			<i>W</i>
0	0	1	\$	\$	\$	T
1	1	1	C	G	A	C
2	2	1	\$	T	A	C
3	3	0	G	A	C	G
4	4	1	G	A	C	T
5	5	1	T	A	C	G-
6	6	1	G	T	C	G
7	7	0	A	C	G	A
8	8	1	A	C	G	T
9	9	1	T	C	G	A-
10	10	1	\$	\$	T	A
11	11	1	A	C	T	\$
12	12	1	C	G	T	C

1. use bwd() and indegree() to find range

2. binary search over  $select_{G/G-}$