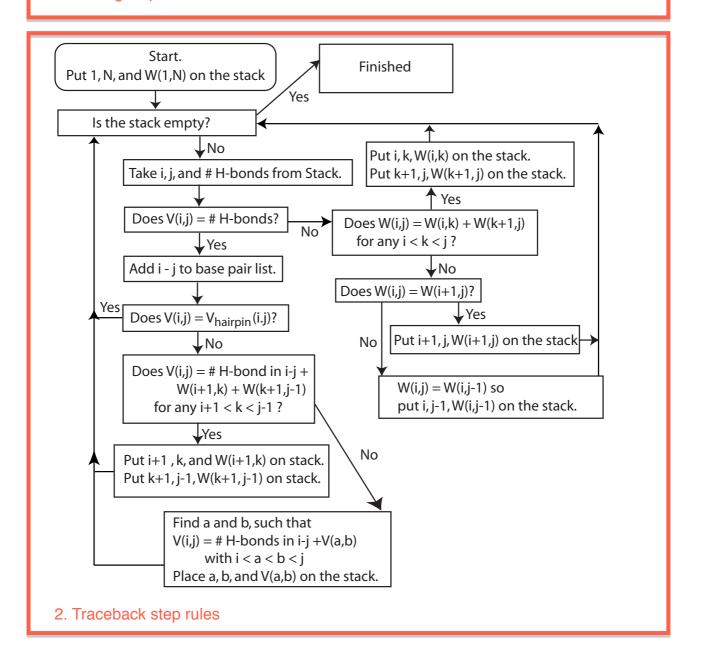
- V(i,j) = 0 if i and j cannot pair canonically = $max[V_{hairpin}(i,j), V_{stack/internal/bulge}(i,j), V_{multibranch}(i,j)]$ if i and j can pair
- $V_{\text{hairpin}} = 0$, $if j-i \le 3$ = # hydrogen bonds in pair i and j, if j-i > 3
- $V_{\text{stack/internal/bulge}} = (\text{# hydrogen bonds in pair i and j}) + \max[V(k1, k2)] \text{ for } i < k1 < k2 < j]$
- $V_{\text{multibranch}} = (\text{# hydrogen bonds in pair i and j}) + \max[W(i+1, k)+W(k+1,j-1)]$ for i+1 < k < j-1]
- $W(i,j) = \max[V(i,j), W(i+1,j), W(i,j-1), W(i,k) + W(k+1,j)$ for i < k < j

1. Filling step rules



5' GCGGGUACCGAUCGUCGC3'

٧	i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
j		G	С	G	G	G	U	Α	С	C	G	Α	U	С	G	J	C	G	С
18	С																		
17	G																		
16	С																		
15	U																		
14	G																		
13	С																		
12	U																		
11	Α																		
10	G																		
9	С																		
8	С																		
7	Α																		
6	U																		
5	G																		
4	G																		
3	G																		
2	С																		
1	G																		

14/				_	T 4	T -		T -			40		10	40		145	140	4-7	40
W	i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
j		G	С	G	G	G	U	Α	С	С	G	Α	U	С	G	U	С	G	С
18	С																		
17	G																		
16	С																		
15	C																=		
14	G															=			
13	С														_				
12	U																		
11	Α												=						
10	G											_							
9	С										-								
8	С									='									
7	Α								_										
6	U							-											
5	G						_												
4	G																		
3	G				-														
2	С																		
1	G		_																