

**A**minstrobe ( $n=2, k=3, w=5$ )Hash function  $h(s)$ 

			A	T	C		G	G	T			
		G	A	T			G	G	T			
	C	G	A	T	C	T						
A	C	G		T	C	T						
18	12	9	4	2	8	14	5	19	11	6		
A	C	G	A	T	C	T	G	G	T	A	C	C

**B**randstrobe ( $n=2, k=3, w=5$ )Hash function  
 $g(s,t) = (h(s) - h(t)) \% 5$ 

			A	T	C			G	T	A			(4
		G	A	T		T	G	G					(9
	C	G	A	T	C	T							(1
A	C	G			C	T	G						(1
18	12	9	4	2	8	14	5	19	11	6			
A	C	G	A	T	C	T	G	G	T	A	C	C	

$$(4 - 19) \% 5 = 1$$

$$(9 - 14) \% 5 = 1$$

$$(12 - 2) \% 5 = 0$$

$$(18 - 8) \% 5 = 0$$

**B**

randstrobe (n=2,k=3,w=5)

$$h(x,y) = (x+y)\%5$$

			A	T	C			G	T	A						(4+
		G	A	T		T	G	G								(9+
	C	G	A	T	C	T										(13
A	C	G				C	T	G								(17
17	13	9	4	2	8	12	5	7	11	6	7	15				
A	C	G	A	T	C	T	G	G	T	A	C	C	T	A	C	

$$(4+7) \% 5 = 1$$

$$(9+12) \% 5 = 1$$

$$(13+2) \% 5 = 0$$

$$(17+8) \% 5 = 0$$