

Repeat	$R_{A_1}$				$R_{B_1}$						$R_{A_2}$				$R_{B_2}$				
Sequence	A	C	T	G	T	T	G	A	G	G	A	C	T	C	T	T	G	A	A
Position	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

**Step 3:**  
repeats without mismatches

Repeat sequences	start positions
ACT	0,10
TTGA	4,14

**Step 4:**  
add mismatch marker '0'

Repeat sequences	start positions
ACT0	0,10
TTGA0	4,14

Repeat	$R'_{A_1}$				$R'_{B_1}$						$R'_{A_2}$				$R'_{B_2}$				
Sequence	A	C	T	G	T	T	G	A	G	G	A	C	T	C	T	T	G	A	A
Position	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

**Step 5:**  
resolve regions with mismatches  
 $4 - 2 + 1 = 14 - 12 + 1 \leq m$  (here  $m = 1$ )

Repeat sequences	start positions
ACT0	0,10
TTGA0	4,14
ACT0TTGA0	0,10

**Step 6:**  
Filtering, removing trailing '0's,  
and replacment of '0's by 'N's

One repetitive region: ACTNTTGA