

Iteration 3: Population after mutation

String Number	Population after Mutation	x value (DV)	$f(x)$ $= n^x$	pselect $f_i / \sum f_i$	Expected count $f_i / \bar{f}$	Acc. count Roulette Wheel
1	11110	30	900			
2	10111	23	529			
3	11110	30	900			
4	11111	31	961			

→  $\text{sum} = 3290$

→  $\text{Avg} = 822.5$

→  $\text{Max} = 961$

Since Max value is not changed,  $x = 961$