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steps: Selection

Fitness

11100	0.257
11011	0.239
11111	0.315
11000	0.189

$\Rightarrow$

1
1
2
0

step2: Crossover

String Number	Mating pool after reproduction	Mate (randomly selected)	Crossover site (random)	New population	x-value	$f(x) = x^2$
1	111|00	3	3	11111	31	961
2	11|011	4	2	11111	31	961
3	111|11	1	3	11100	28	784
4	11|111	2	2	11011	27	729

step3: Mutation

String Number	Population after crossover	Mutation point	Population After Mutation	x-value	$f(x) = x^2$
1	11111	5	11110	30	900
2	11111	2	10111	23	529
3	11100	4	11110	30	900
4	11011	3	11111	31	961