

Parámetro	Valor
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Función $f(x) = x * \sin(10\pi x) + 1$

Rango de x [0, 1]

L 8

K 8

M 5

Método se Ruleta

Cruce Cruce de un punto

Mutación Mutación simple de bit

Resultado $x \approx 0.839 \Rightarrow f(x) \approx 1.8$

Bits primera generación								Dec	x	f(x)	Aptitud	prob. Selección
1	0	0	0	0	0	1	0	130	0.509804	0.845451578	0.845452	0.115264053
0	0	0	1	0	1	0	0	20	0.078431	1.049170495	1.04917	0.143037929
1	1	0	0	0	1	1	0	198	0.776471	0.476895147	0.476895	0.065017168
0	1	0	0	0	0	1	0	66	0.258824	1.248943108	1.248943	0.170273789
1	1	1	1	1	1	0	0	248	0.972549	0.261441493	0.261441	0.035643444
0	0	0	0	0	1	0	0	4	0.015686	1.007421075	1.007421	0.137346051
1	0	0	0	0	0	0	0	128	0.501961	0.969098839	0.969099	0.132121416
1	0	1	0	0	0	0	0	160	0.627451	1.476489359	1.476489	0.201296149

Segunda generación

1	0	1	0	1	1	1	1	175	0.686275	1.286835531	1.286836	0.175439827
1	0	0	0	0	0	0	0	128	0.501961	0.969098839	0.969099	0.132121416
1	0	1	0	0	0	0	0	160	0.627451	1.476489359	1.476489	0.201296149
0	1	0	0	1	0	1	0	74	0.290196	1.087973717	1.087974	0.14832814
1	1	0	1	0	0	0	0	208	0.815686	1.385895921	1.385896	0.188945156
1	0	1	0	0	1	1	0	166	0.65098	1.650671645	1.650672	0.22504317
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.244244269
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.156600729

Tercera generación

1	0	1	1	0	1	1	0	182	0.713725	0.701691048	0.701691	0.095664561
1	1	0	0	0	1	1	0	198	0.776471	0.476895147	0.476895	0.065017168
1	0	1	1	0	0	0	0	176	0.690196	1.209234787	1.209235	0.164860183
1	1	0	0	0	0	0	0	192	0.752941	0.250270738	0.250271	0.034120487
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.244244269
1	0	1	0	0	1	1	0	166	0.65098	1.650671645	1.650672	0.22504317
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.244244269
1	1	0	1	1	1	1	0	222	0.870588	1.69474441	1.694744	0.2310518

Cuarta generación

1	1	0	1	1	1	1	0	222	0.870588	1.69474441	1.694744	0.147757295
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.15619386
1	1	0	1	0	0	1	0	210	0.823529	1.554808177	1.554808	0.135556872
1	1	1	1	0	0	0	0	240	0.941176	0.094752336	0.094752	0.008261039
1	0	1	0	0	1	1	0	166	0.65098	1.650671645	1.650672	0.143914785
1	1	0	1	1	1	1	0	222	0.870588	1.69474441	1.694744	0.147757295
1	1	0	0	1	1	1	0	206	0.807843	1.197044025	1.197044	0.104364992
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.15619386

Quinta generación

1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.146203603
1	1	0	1	1	1	1	0	222	0.870588	1.69474441	1.694744	0.138306646
1	1	1	1	1	1	1	0	254	0.996078	0.877593624	0.877594	0.071619667
1	1	0	1	0	0	1	0	210	0.823529	1.554808177	1.554808	0.126886569
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.146203603
1	1	0	0	1	1	1	0	206	0.807843	1.197044025	1.197044	0.097689742
1	1	0	1	0	0	1	0	210	0.823529	1.554808177	1.554808	0.126886569
1	1	0	1	0	1	1	0	214	0.839216	1.791509996	1.79151	0.146203603