	bit_7	bit_6	bit_5	bit_4	bit_3	bit_2	bit_1	bit_0	
$\cdots$	0.35	0.77	0.56	0.5	0.65	0.5	0.49	0.59	beta matrix
$\cdots$	0	1	1	1	1	0	0	1	global best
$\cdots$	1	1	0	1	0	0	1	0	local worst
$\cdots$	$0.35 - \theta$	0.77	$0.56 + \theta$	0.5	$0.65 + \theta$	0.5	$0.49 - \theta$	$0.59 + \theta$	updated beta matrix