

Initial Population

LP_O	LP_RP	LP_RS	HP_O	HP_RP	HP_RS	Score
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- Design Low pass and high pass filter and filter the waveform
- Take FFT of original wave and filtered wave
- Cut the original wave frequency components out of the band.
- Calculate the score and assign to each population.
- Sort the population according to the score



Control the termination criteria

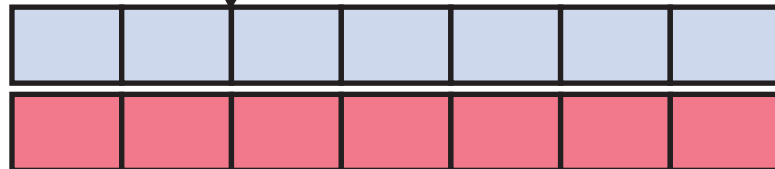
- Max number of iteration
- The value of the fitness function for the best point in the current population is less than or equal to Fitness limit.
- Algorithm can't find better score in some amount of iteration



Mutation

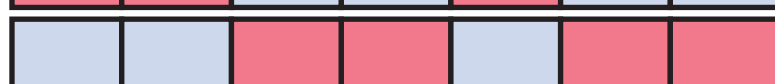
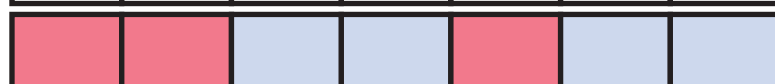


Randomly some of param selected and assign new value from the defined range



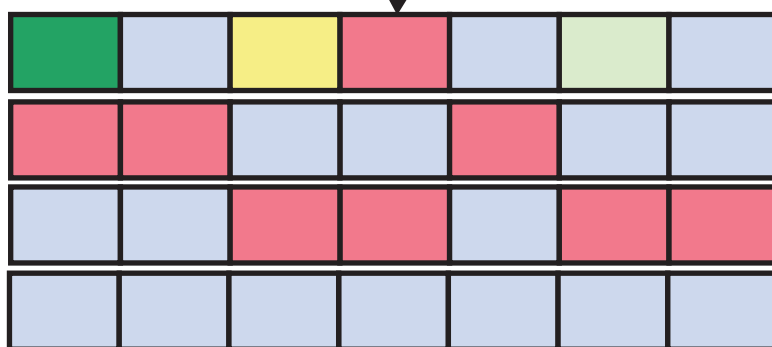
Mask

0	0	1	1	0	1	1
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Uniform Cross Over

New Generation



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