

```

        receivers(i) = 1;
    end
    if x(num_parameters*i-3) < 1.5
        transmitters(i) = 1;
    end
end
end

% Using matrix multiplication to set power to all the receivers to equal 0
powers = powers.*transmitters;

% This calls the cost function from the cost_function.m file.
C = cost_function(quantity,diameters,powers,receivers,transmitters, \
year_built);

% This calls the gain function from the loop_gain_function.m file.
% Gain is negative because it is being minimized.
% The gain will be multiplied by -1 after the last generation of the GA to \
make it positive.
G = -loop_gain_function(quantity,diameters,powers,receivers,transmitters,k, \
lambda);

end % end objectiveFunction()

end % radar_optimization()

```