function [LB, UB, step] = getIterParams(feature)

%Return the parameters needed for iteration for a given feature

% Given a feature, return its user defined lower bound, upper bound, and

% its step size (this is internally defined)

%NOTE: Might make another function getUserParams that might get incorporated here

% if strcmp(feature, 'AdjustedBudget') == 1

% UB = 175;

% LB = 25;

% step = 5;

% return;

% elseif strcmp(feature, 'Num\_Theatres\_Widest') == 1

% UB = 4295; %USER CHOSEN

% LB = 0;

% step = 250;

% return;

if strcmp(feature, 'Num\_Theatres\_Widest') == 1

UB = 4293; %USER CHOSEN

LB = 0;

step = 50;

return;

elseif strcmp(feature, 'Google\_Trends') == 1

UB = 100;

LB = 0;

step = 2;

return;

elseif strcmp(feature, 'Franchise\_Raw') == 1

step = 0; %this is for sure

%If MUST be:

%LB = 1

%UB = 1

%If must NOT be:

%LB = 0;

%UB = 0;

%If it can be either:

LB = 1;

UB = 1;

return;

elseif strcmp(feature, 'AdjustedBudget') == 1

UB = 175;

LB = 10;

step = 5;

return;

elseif strcmp(feature, 'sentiment') == 1

UB = 1;

LB = -1;

step = 0.1;

return;

elseif strcmp(feature, 'director\_nom') == 1

UB = 4;

LB = 0;

step = 1;

elseif strcmp(feature, 'director\_win') == 1

UB = 2;

LB = 0;

step = 1;

elseif strcmp(feature, 'numNominatedActors') == 1

UB = 5;

LB = 0;

step = 1;

return;

elseif strcmp(feature, 'numWinningActors') == 1

UB = 5;

LB = 0;

step = 1;

return;

elseif strcmp(feature, 'totNumNom') == 1

UB = 16;

LB = 0;

step = 2;

return;

elseif strcmp(feature, 'totNumWins') == 1

UB = 10;

LB = 0;

step = 2;

return;

elseif strcmp(feature, 'Jan') == 1 || strcmp(feature, 'Feb') == 1 || ...

strcmp(feature, 'Mar') == 1 || strcmp(feature, 'Apr') == 1 || ...

strcmp(feature, 'May') == 1 || strcmp(feature, 'Jun') == 1 || ...

strcmp(feature, 'Jul') == 1 || strcmp(feature, 'Aug') == 1 || ...

strcmp(feature, 'Sep') == 1 || strcmp(feature, 'Oct') == 1 || ...

strcmp(feature, 'Nov') == 1 || strcmp(feature, 'Dec') == 1

step = 1; %this is for sure

%If MUST be:

%LB = 1

%UB = 1

%If must NOT be:

%LB = 0;

%UB = 0;

%If it can be either:

LB = 0;

UB = 1;

return;

%For the next one (day of week), it is NOT constrained (can be 0 or 1 for

%all of them)

elseif strcmp(feature, 'Mon') == 1 || strcmp(feature, 'Tue') == 1 || ...

strcmp(feature, 'Wed') == 1 || strcmp(feature, 'Thurs') == 1 || ...

strcmp(feature, 'Fri') == 1 || strcmp(feature, 'Sat') == 1 || ...

strcmp(feature, 'Sun') == 1

UB = 1;

LB = 0;

step = 1;

return;

elseif strcmp(feature, 'runtime') == 1

UB = 200;

LB = 60;

step = 5;

return;

elseif strcmp(feature, 'Adventure') == 1 || strcmp(feature, 'Action') == 1 || ...

strcmp(feature, 'Animation') == 1 || strcmp(feature, 'Family') == 1 || ...

strcmp(feature, 'ScienceFiction') == 1 || strcmp(feature, 'Comedy') == 1 || ...

strcmp(feature, 'Drama') == 1 || strcmp(feature, 'Romance') == 1 || ...

strcmp(feature, 'Horror') == 1 || strcmp(feature, 'Mystery') == 1 || ...

strcmp(feature, 'Documentary') == 1 || strcmp(feature, 'Music') == 1 || ...

strcmp(feature, 'Thriller') == 1 || strcmp(feature, 'Crime') == 1 || ...

strcmp(feature, 'War') == 1

step = 1; %this is for sure

%If MUST be:

%LB = 1

%UB = 1

%If must NOT be:

%LB = 0;

%UB = 0;

%If it can be either:

LB = 0;

UB = 1;

return;

elseif strcmp(feature, 'total\_language') == 1

UB = 8;

LB = 1;

step = 1;

elseif strcmp(feature, 'PG\_13') == 1 || strcmp(feature, 'PG') == 1 || ...

strcmp(feature, 'R') == 1 || strcmp(feature, 'G') == 1 || ...

strcmp(feature, 'NC\_17') == 1 || strcmp(feature, 'NR') == 1

step = 1; %this is for sure

%If MUST be:

%LB = 1

%UB = 1

%If must NOT be:

%LB = 0;

%UB = 0;

%If it can be either:

LB = 0;

UB = 1;

return;

end

end