```
function [I] = Simpson(x, y)
% Numerical evaluation of integral by Simpson's 1/3 Rule
% Inputs
%   x = the vector of equally spaced independent variable
%   y = the vector of function values with respect to x
% Outputs:
%   I = the numerical integral calculated

%Check for valid input size
szx = size(x);
szy = size(y);
if isequal(szx,szy)
    x = x;
    y = y;
else
    error("Inputs are not the same size");
end


%CHECK IF X IS EQUALLY SPACED
space = diff(x)
if all(space == space(1))
    x = x;
else
    error("X is not equally spaced");
end

end
```