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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%
% ASEN 3300 - PreLab 9
%
% Created By: Johnathan Tucker
%
% Collaborators: N/A
%
% The purpose of the script is to create the truth table for question
% 1 to
% validate my simplest for siren function
%
% Created Date: 3/18/2020
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%
```

Housekeeping

```
clc;
clear all;
close all;
```

Create possible state vectors

```
A = [0; 0; 0; 0; 1; 1; 1; 1];
O = [0; 0; 1; 1; 1; 1; 0; 0];
F = [0; 1; 0; 1; 1; 0; 1; 0];
```

Get siren truth vector

```
S = siren(A,O,F);
Truth = [A,O,F,S'];
fprintf("      A      O      F      S\n")
disp(Truth)
```

<i>A</i>	<i>O</i>	<i>F</i>	<i>S</i>
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	1	1	1

1	1	0	1
1	0	1	1
1	0	0	0

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