declarations
" input pins
a, b pin;

" output pins
f1, f2, f3, f4 pin istype 'com';

" here are several methods of entering a truth table

" Example 1: the full form
truth_table ( [a, b] -> f1 )
[0,0] -> 0;
[0,1] -> 1;
[1,0] -> 1;
[1,1] -> 1;

" Example 2: omit the off-set of the function and use decimals
truth_table ( [a, b] -> f2 )
1 -> 1;
2 -> 1;
3 -> 1;

" Don't care optimization
@DCSET

" Example 3: use special constant .x. to indicate don't cares
" Both the on-set and the off-set must be listed
truth_table ( [a, b] -> f3 )
0 -> 0;
1 -> .x.;
2 -> .x.;
3 -> 1;

" Example 4: skip entries that are in the dc-set
" Both the on-set and the off-set must be listed
truth_table ( [a, b] -> f4 )
0 -> 0;
3 -> 1;

END