Tally Circuits

Complex Steering Logic Example

N Input Tally Circuit: count # of 1's in the inputs



Switch Logic Implementation of Tally Function

Complex Steering Logic Example

Operation of the 1 Input Tally Circuit



Input is 0, straight through switches enabled

Complex Steering Logic Example

Operation of 1 input Tally Circuit N inputs, N+1 outputs, count the number of inputs '1'





Complex Steering Logic Example

Extension to the 2-input case



Conventional logic implementation

Complex Steering Logic Example

Switch Logic Implementation: 2-input Tally Circuit





Cascade the 1-input implementation!

Complex Steering Logic Example Operation of 2-input implementation





