1-bit comparator X60848_en

Design a circuit that compares two bits and indicates whether the first is greater than, equal to or smaller than the second.

Specification

module *cmp*(*a*, *b*, *eq*, *gt*, *lt*);
input *a*, *b*;
output *eq*, *gt*, *lt* ;

Input

- *a* and *b* are the input bits

Output

- *eq* indicates that *a*=*b*.
- *gt* indicates that *a*>*b*.
- *lt* indicates that *a*<*b*.

Problem information

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Generation: 2026-07-14T06:42:36.628Z

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