
Majority of 5 inputs

X72286_en

Design a circuit that implements the 5-input majority function, that is, the output is 1 when there are more ones than zeros at the inputs.

Specification

```
module majority(a, b, c, d, e, maj);  
  input a, b, c, d, e;  
  output maj;
```

Input

- *a, b, c, d* and *e* are the inputs.

Output

- *maj* is the output implementing the majority function.

Problem information

Author: Jordi Cortadella

Generation: 2026-02-03T12:16:29.489Z

© *Jutge.org*, 2006–2026.

<https://jutge.org>