

---

## Residue mod 7

X91814\_en

---

Design a circuit that computes the residue mod 7 of a 4-bit number represented in binary code.

### Specification

```
module mod7(n, residue);  
    input [3:0] n;  
    output [2:0] residue ;
```

### Input

- *n* is a 4-bit number represented in binary code.

### Output

- *residue* represents *n mod 7* in binary code.

### Problem information

Author: Jordi Cortadella

Generation: 2026-02-03T12:16:56.216Z

© *Jutge.org*, 2006–2026.

<https://jutge.org>