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## Residue mod 7

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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  $n \bmod 7$  in binary code.

### Problem information

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