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## Is it a BCD digit?

X31983\_en

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Design a circuit that receives a 4-bit number and generates an output that indicates when the number represents a BCD digit (the value is between 0 and 9).

### Specification

```
module is_bcd_digit ( digit , is_bcd );  
    input [3:0] digit ;  
    output is_bcd ;
```

### Input

- *digit* is the 4-bit input number.

### Output

- *is\_bcd* indicates when the number is a BCD digit.

### Problem information

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