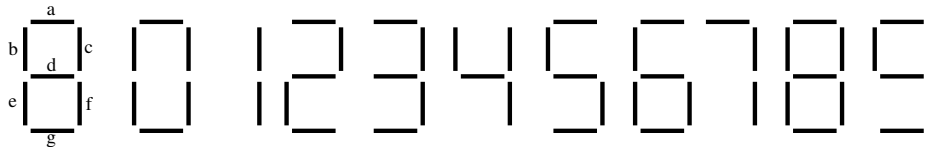## 7-segment digit                                             X37276_en

Design a circuit that controls a 7-segment display to represent a BCD digit. The circuit has a BCD digit as input and 7 output functions that control the segments (the output must be 1 when the segment must be illuminated).



### Specification

        **module** *bcd_seven_segment* (*digit*, *a*, *b*, *c*, *d*, *e*, *f*, *g*);
            **input** [3:0]  *digit*;
            **output** *a*, *b*, *c*, *d*, *e*, *f*, *g*;

### Input

- *digit* is the 4-input BCD digit, representing digits from 0 to 9.

### Output

- *a-g* are the outputs, each one corresponding to a segment according to the figure.

### Problem information

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