```
library IEEE;
use IEEE.STD_LOGIC_1164.ALL;
use IEEE.NUMERIC_STD.ALL;
-- Uncomment the following library declaration if instantiating
-- any Xilinx leaf cells in this code.
--library UNISIM;
--use UNISIM.VComponents.all;
entity Disp1Digit is
    Port ( V : in STD_LOGIC_VECTOR (3 downto 0);
           N : in STD_LOGIC_VECTOR (1 downto 0);
           S : out STD_LOGIC_VECTOR (6 downto 0);
           ENAN : out STD_LOGIC_VECTOR (3 downto 0));
end Disp1Digit;
architecture Behavioral of Disp1Digit is
type tt is array (0 to 15) of std_logic_vector(6 downto 0);
-- Le MSB et le LSB sont inversés dans la carte donc on doit inverser
-- les valeurs trouvés à la prépa.
constant table:tt:=("1000000",
                    "1111001",
                    "0100100",
                    "0110000",
                    "0011001",
                    "0010010",
                    "0100000",
                    "1111000",
                    "000000",
                    "0010000",
                    "1111111",
                    "1111111",
                    "1111111",
                    "1111111",
                    "1111111",
                    "1111111");
begin
    ENAN <= "1110" when N="00" else
            "1101" when N="01" else
            "1011" when N="10" else
            "0111";
            table(to_integer(unsigned(V)));
    S <=
end Behavioral;
```