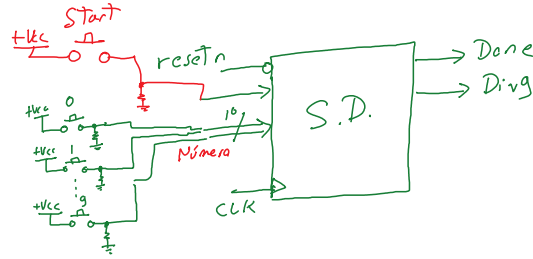


steps

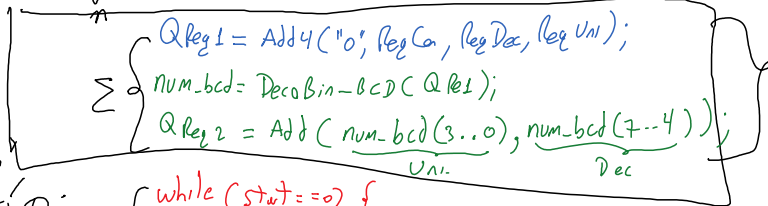
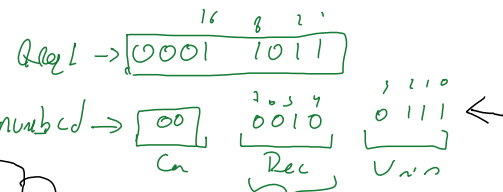
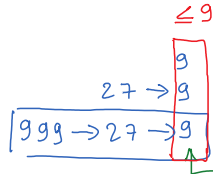
- ① Start
- ② Número ("9", "8", "1")
- ③ Sumar dígitos $9 \times 999 = \begin{matrix} 8999 \\ 27 \\ 9 \end{matrix}$
- ④ Done y Div9
- ⑤ Start \rightarrow inicio

Pseudocódigo.-

```

while (1) {
  while (start == 0) { }
  while (OR(Número) == 0) { }
  RegCar = DecoDecimal-BCD(Número);
  while (OR(Número) == 0) { }
  RegDec = DecoDecimal-BCD(Número);
  while (OR(Número) == 0) { }
  RegUni = DecoDecimal-BCD(Número);
}

```



Desafío #1

```

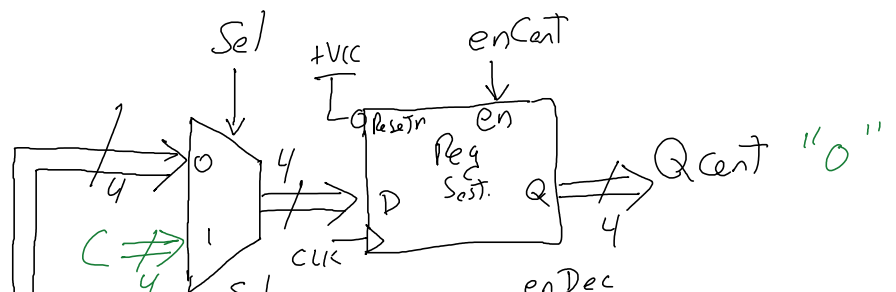
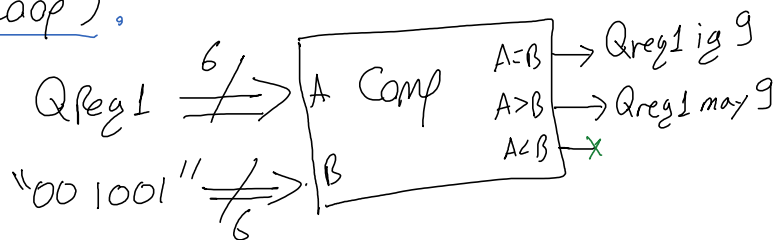
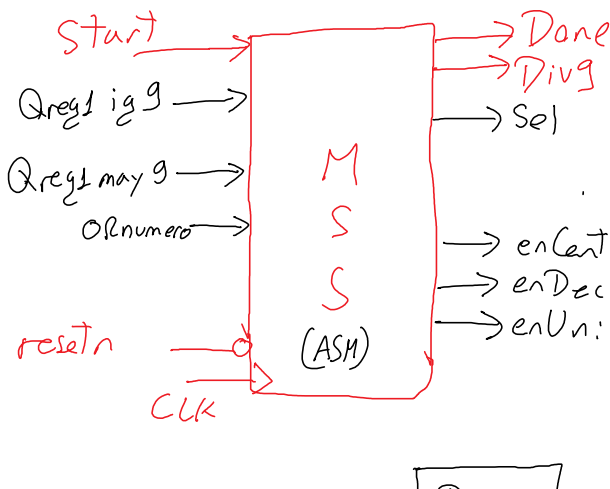
while (start == 0) {
  Done = 1;
  if (QReg2 == 9) {
    Div9 = 1;
  }
}

```

```

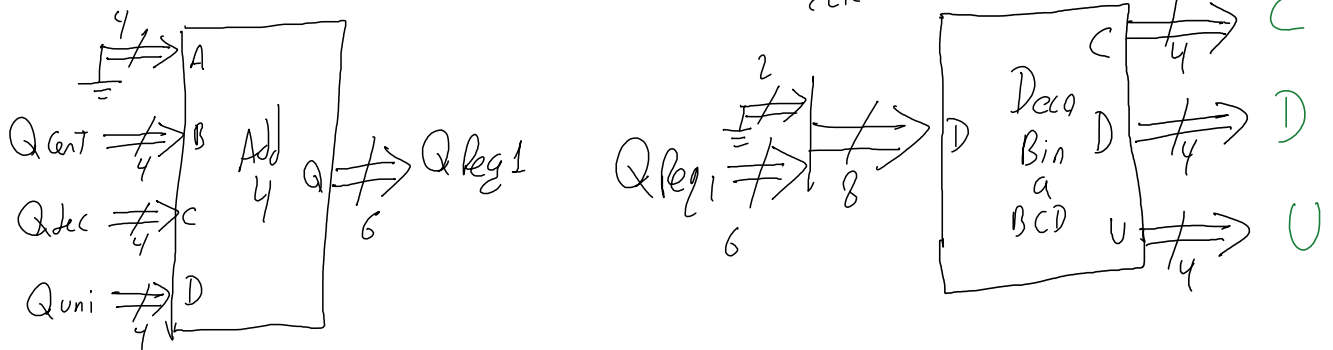
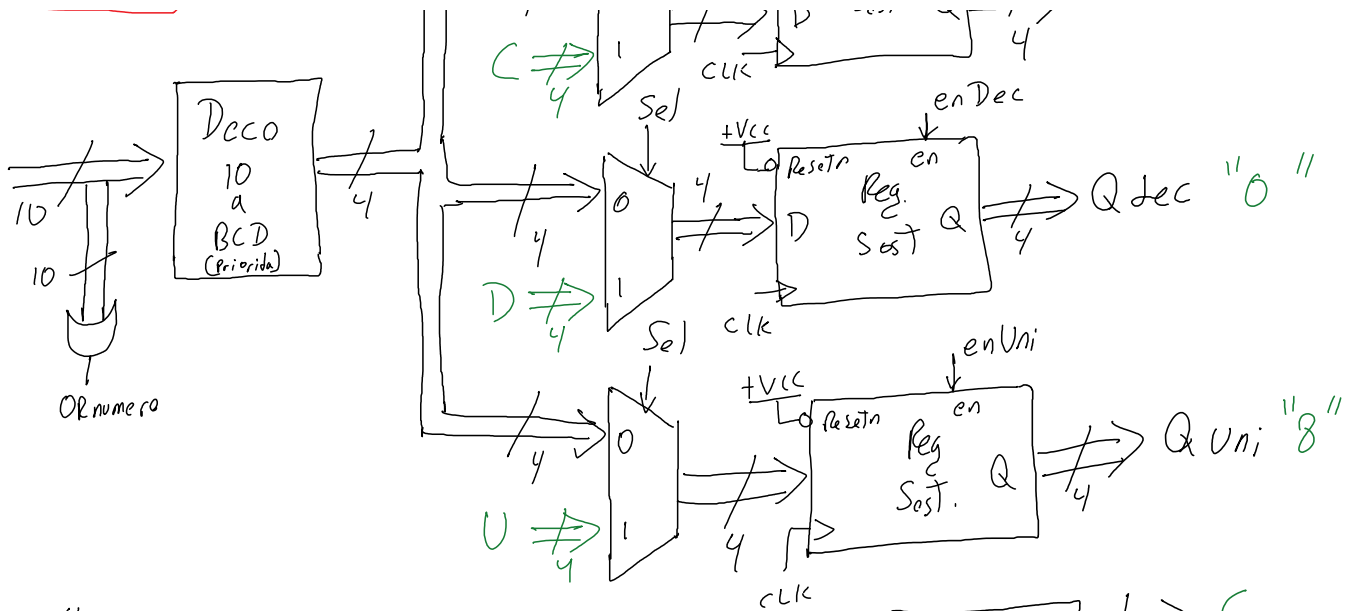
while (QReg1 > 9) {
  QReg1 = Add4("0", RegCar, RegDec, RegUni);
  num-Bcd = DecoBin-Bcd(QReg1);
  RegCar = num-Bcd(10..8);
  RegDec = num-Bcd(7..4);
  RegUni = num-Bcd(3..0);
}

```

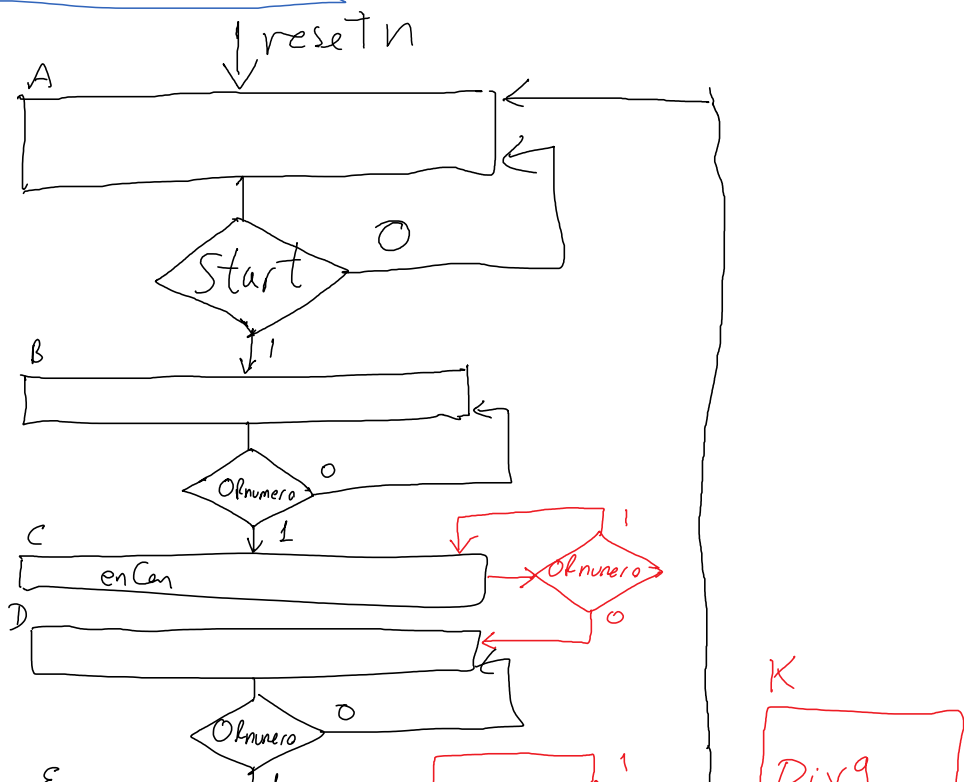
Partición Funcional (Version Loop).

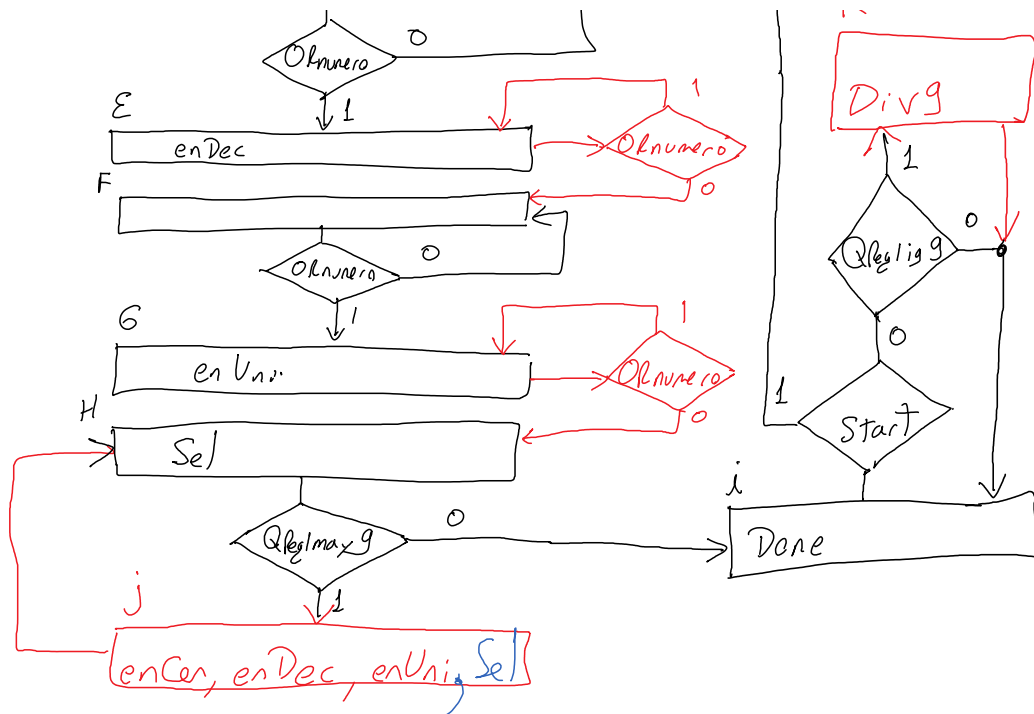
CLK

Número

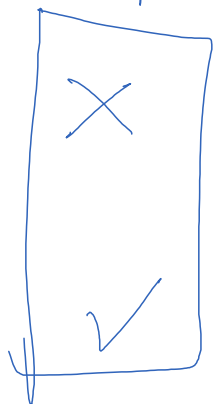


ASM (Loop)





Loop



"0" + "0" + "g" → g → "0" "0" "g"

"g" + "g" + "g" → 27 → "0" "2" "7"

× "0" + "2" + "7" → g → "0" "0" "g"

Desafio #2 → VHDL y ASM (ambos)