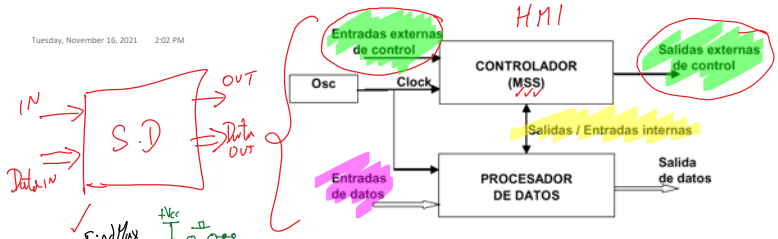
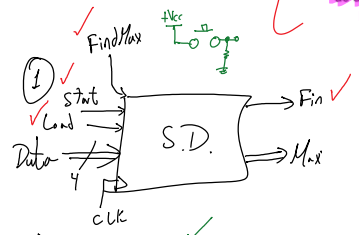


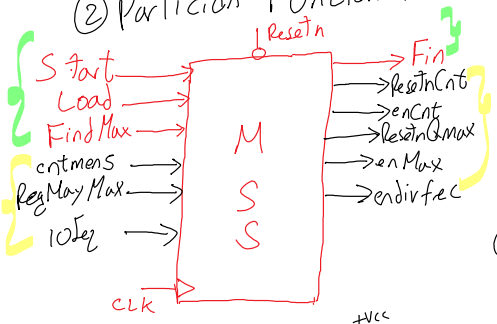


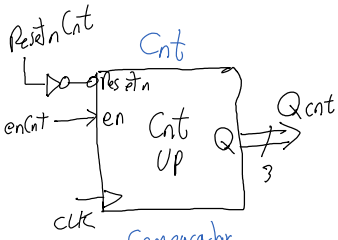
→ Start → on
boa) → x5 Data
– Find Max
– Fin → Max

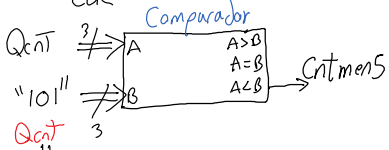
① Pseudocodigo

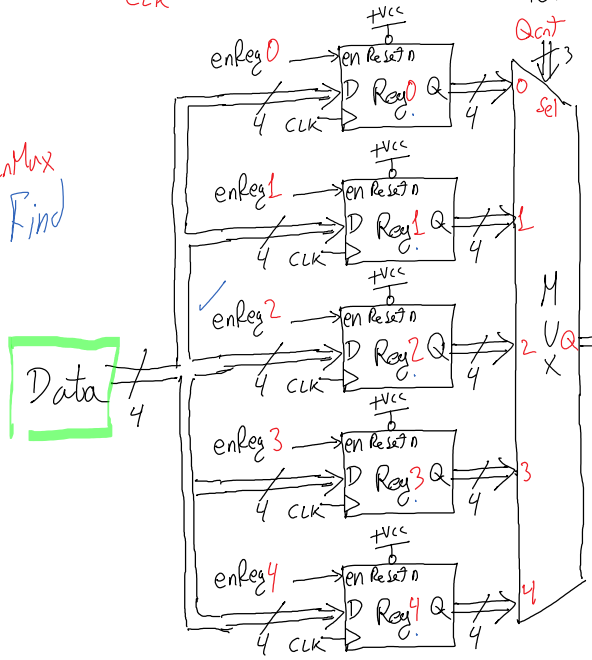
```
while(1){
  while(start==0){cnt=0;}  → ResetnCnt
  while(cnt<5){
    if(Load==1){
      switch(cnt){ --- Decoder
        case 0: Reg0=Data;
        case 1: Reg1=Data;
        case 2: Reg2=Data;
        case 3: Reg3=Data;
        case 4: Reg4=Data;
      }  } enDeco  (Load)
    cnt++; → enCnt
  }
  while(FindMax==0){cnt=0; QMax=0;}  → ResetnQmax
  while(cnt<5){ ---- Mux
    switch(cnt){
      case 0: if(Reg0>Qmax){Qmax=Reg0;}
      case 1: if(Reg1>Qmax){Qmax=Reg1;}
      case 2: if(Reg2>Qmax){Qmax=Reg2;}
      case 3: if(Reg3>Qmax){Qmax=Reg3;}
      case 4: if(Reg4>Qmax){Qmax=Reg4;}
    }  } enMux  (Find)
    cnt++; → enCnt
  enDivFrec=1;
  while(10Seg=0){
  }
  Fin; → enReco
}
```

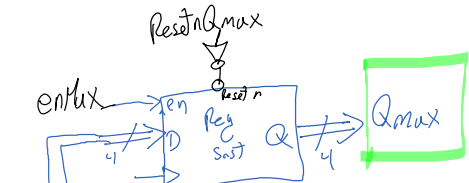
② Partición Funcional

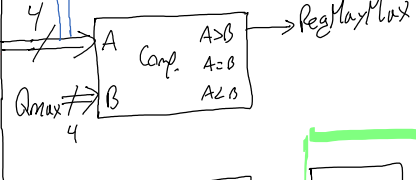


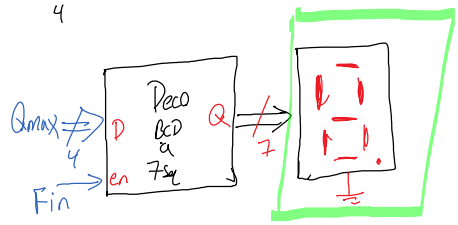


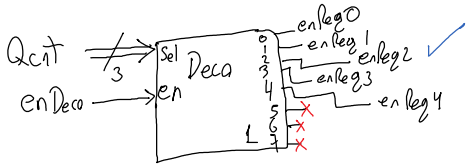


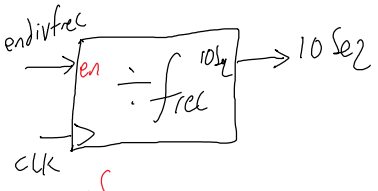


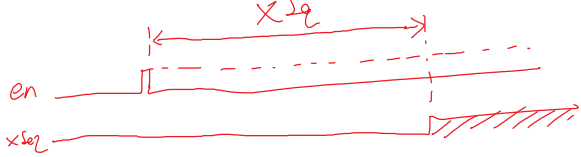




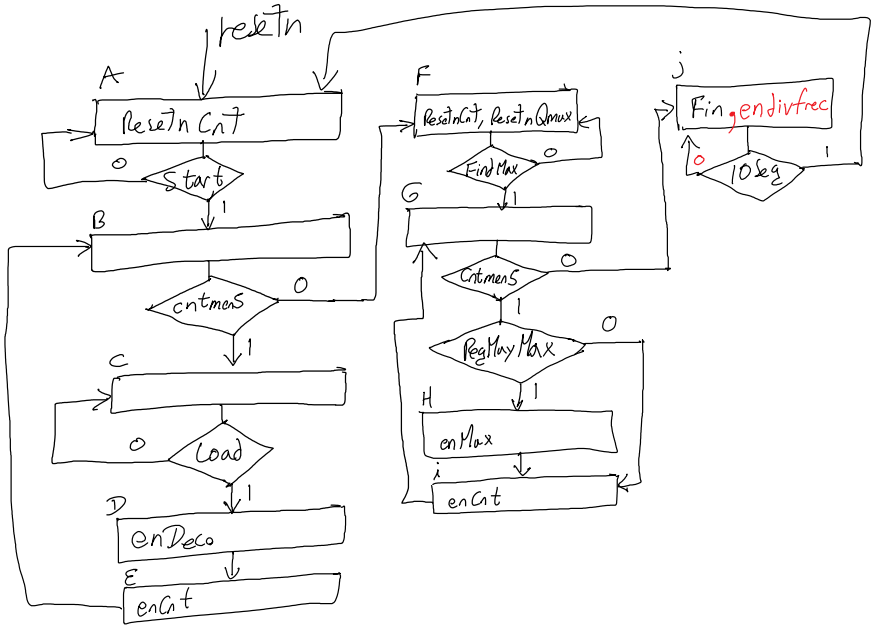








③ ASM:


reset n
A
Reset n Cnt
0
Start
1
B
cntmenS
0
1
C
0
Load
1
D
enDeco
E
enCnt
F
ResetnCnt, ResetnQmax
0
FindMax
1
G
CntmenS
0
1
RegMayMax
0
1
H
enMax
i
enCnt
j
Fin, endivfrec
0
10seg
1