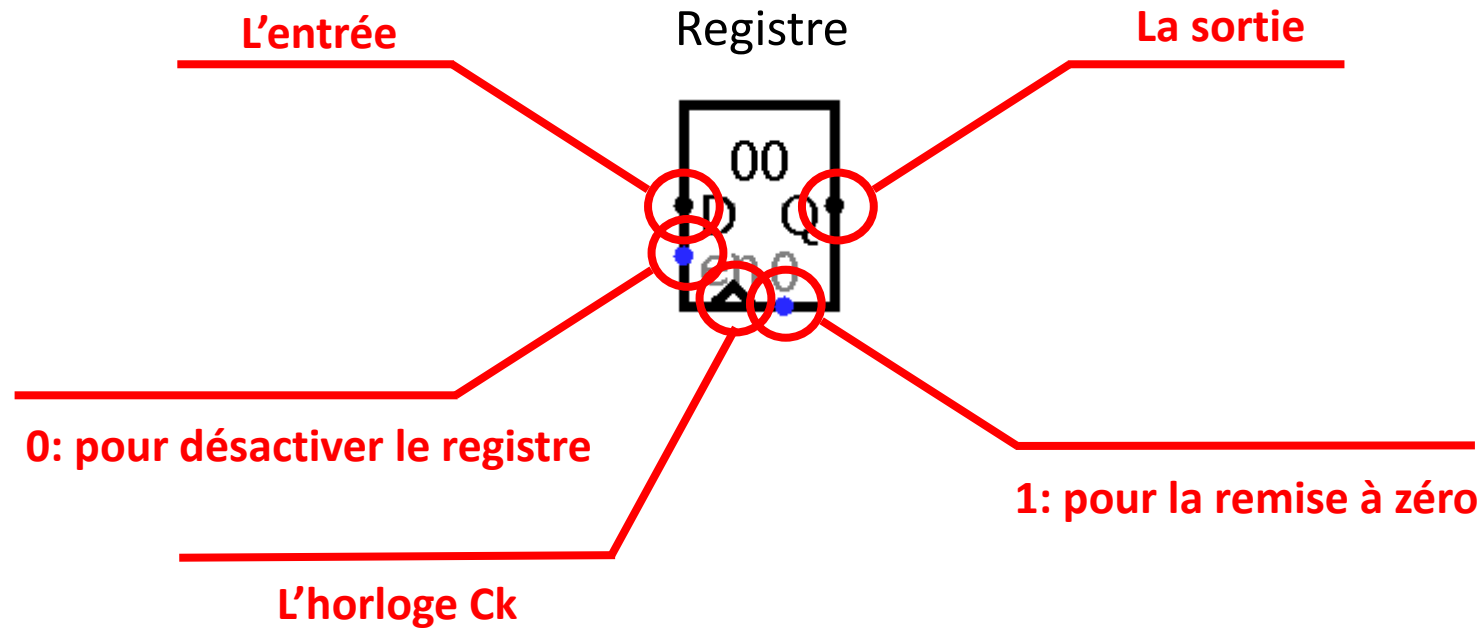


SMI Semestre 3
Module: Electronique

TP 4: Bascules, mémoires et compteurs

1. Registre (Memory\Register)



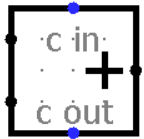
1. Sommateur parallèle



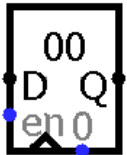
Horloge Ck



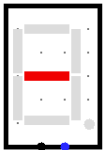
Entrée



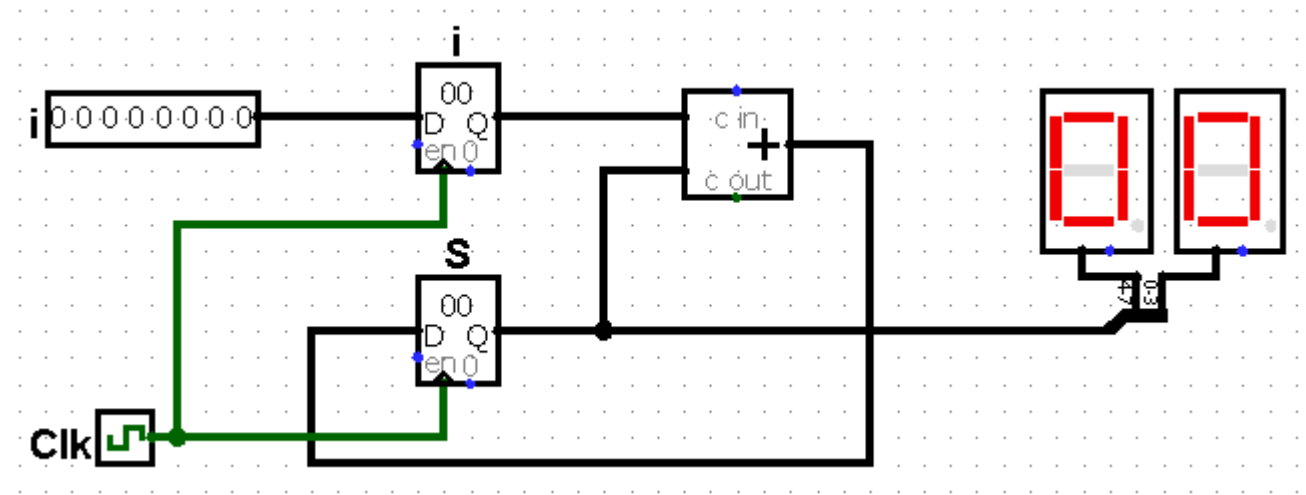
Additionneur



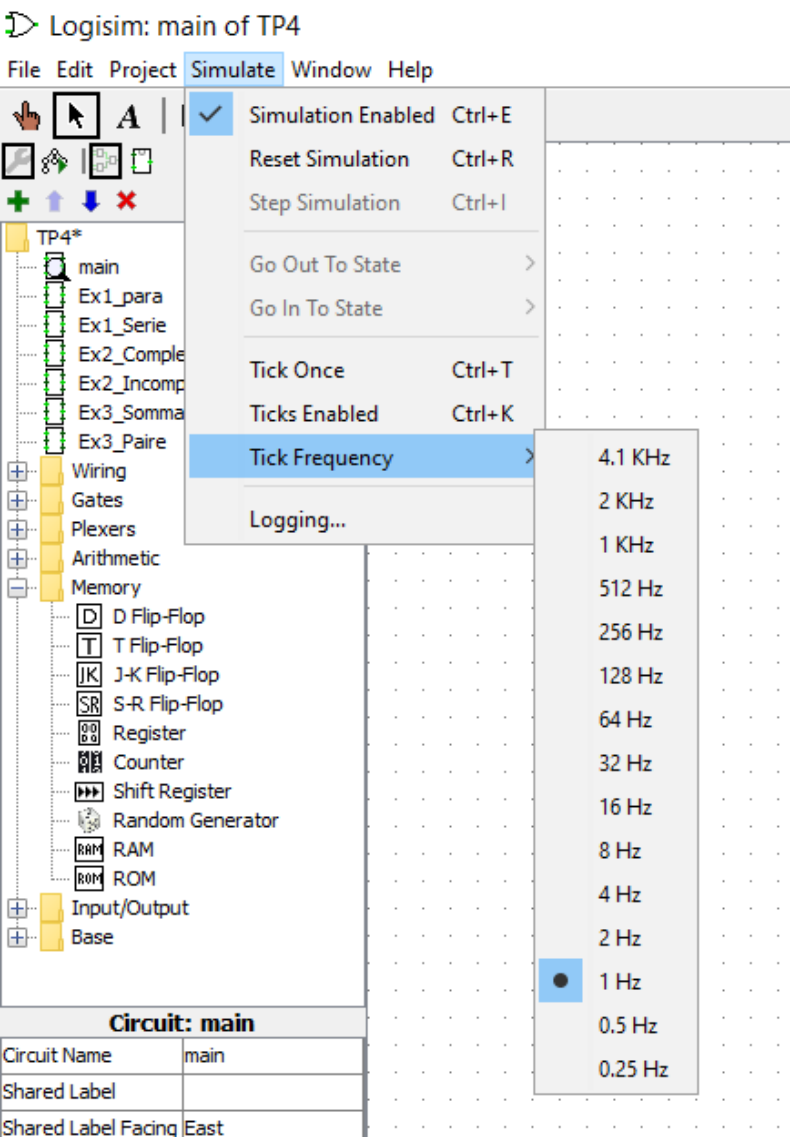
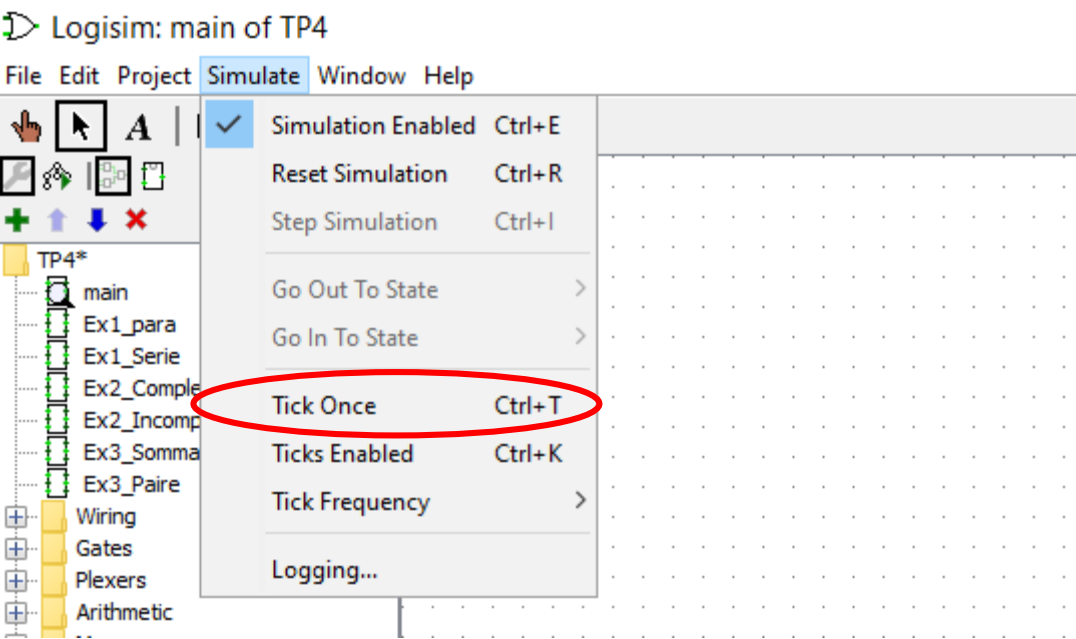
Deux registres de 8 bits



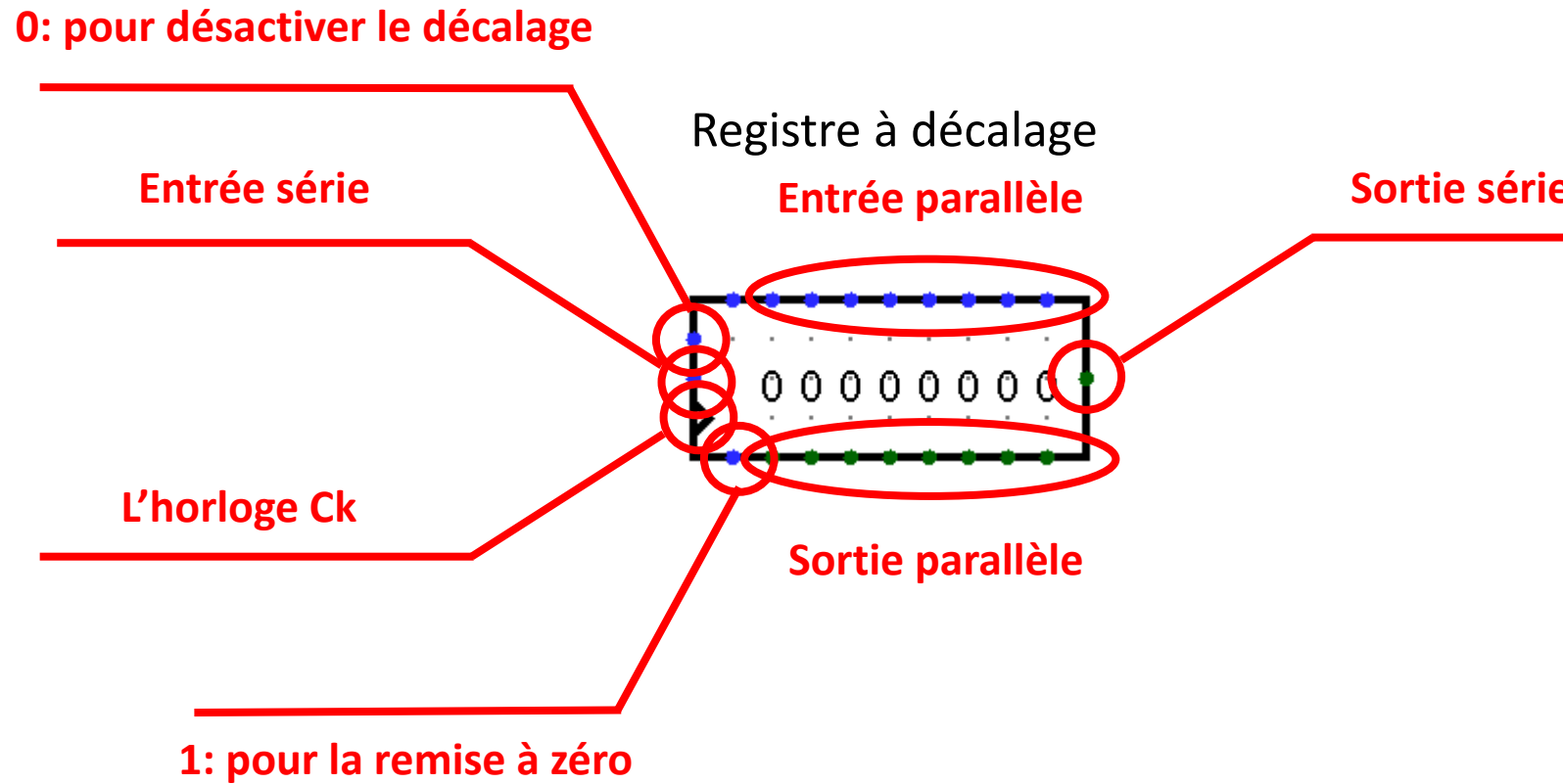
Deux afficheurs hexadécimal



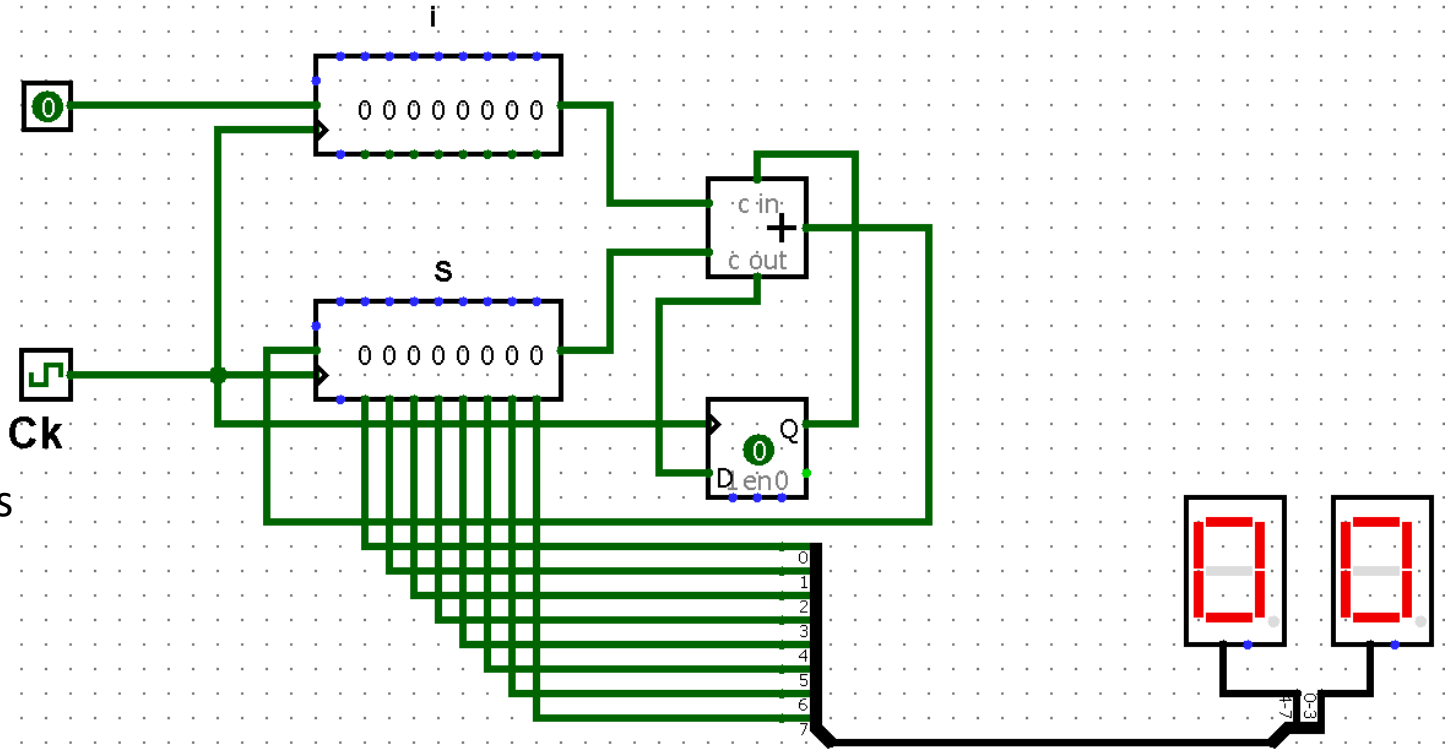
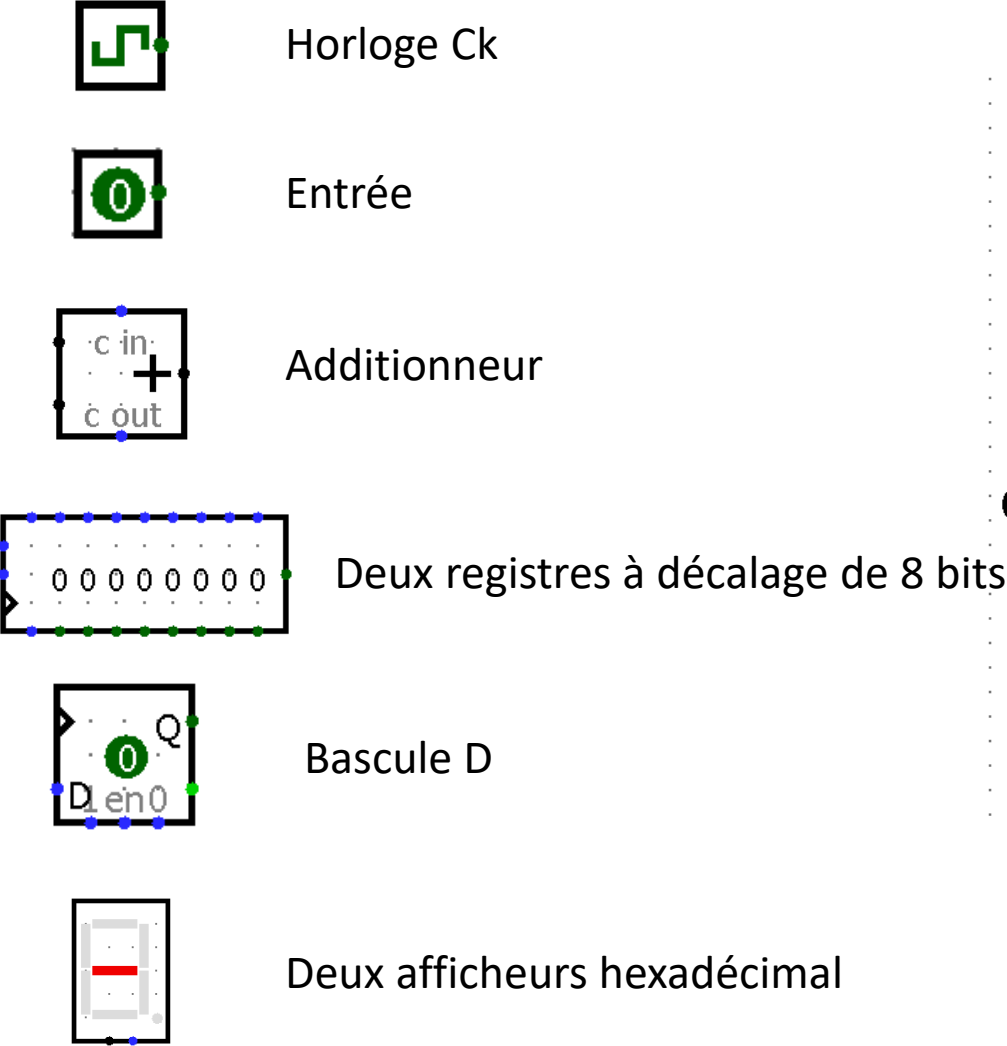
Gestion de l'horloge



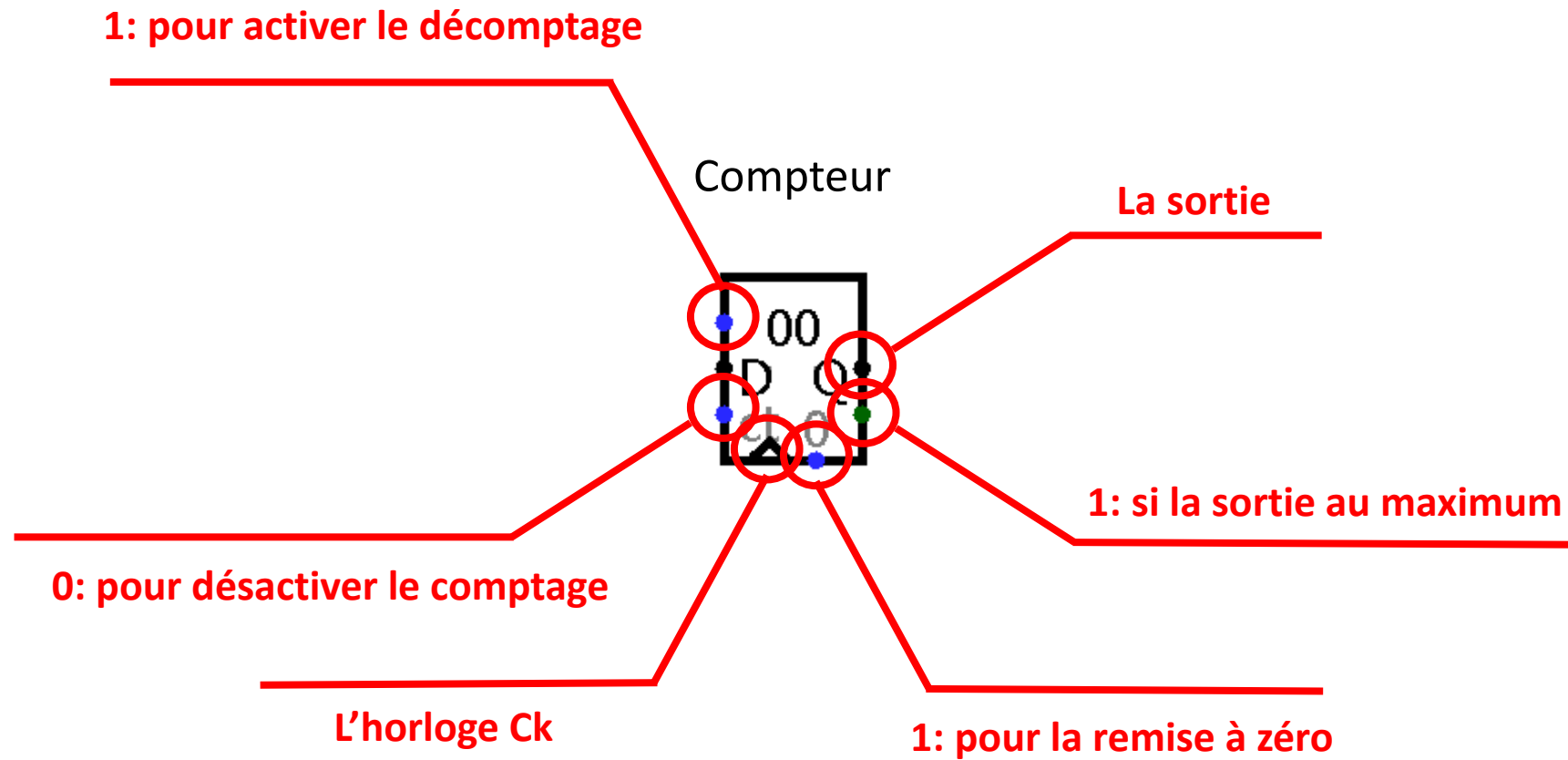
2. Sommateur série



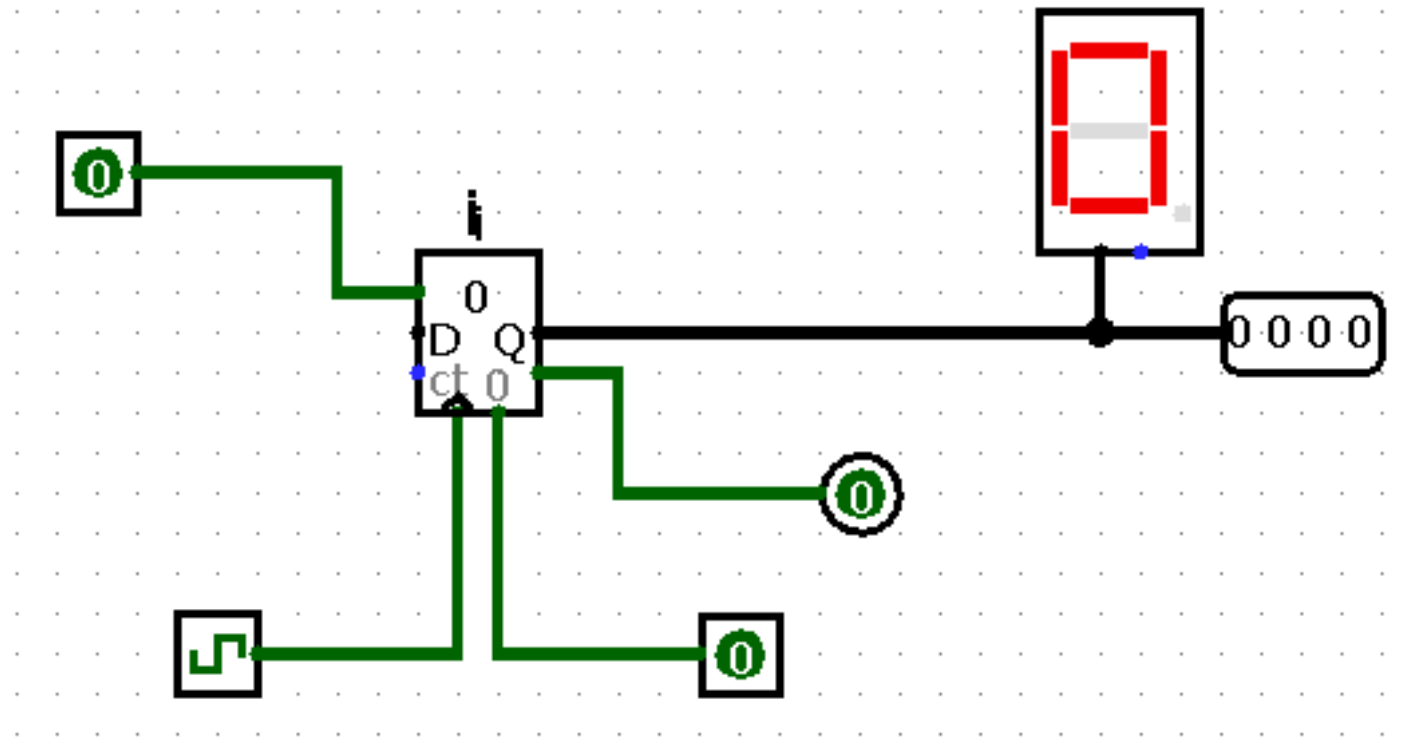
2. Sommateur série



3. Compteurs synchrones de 4bits

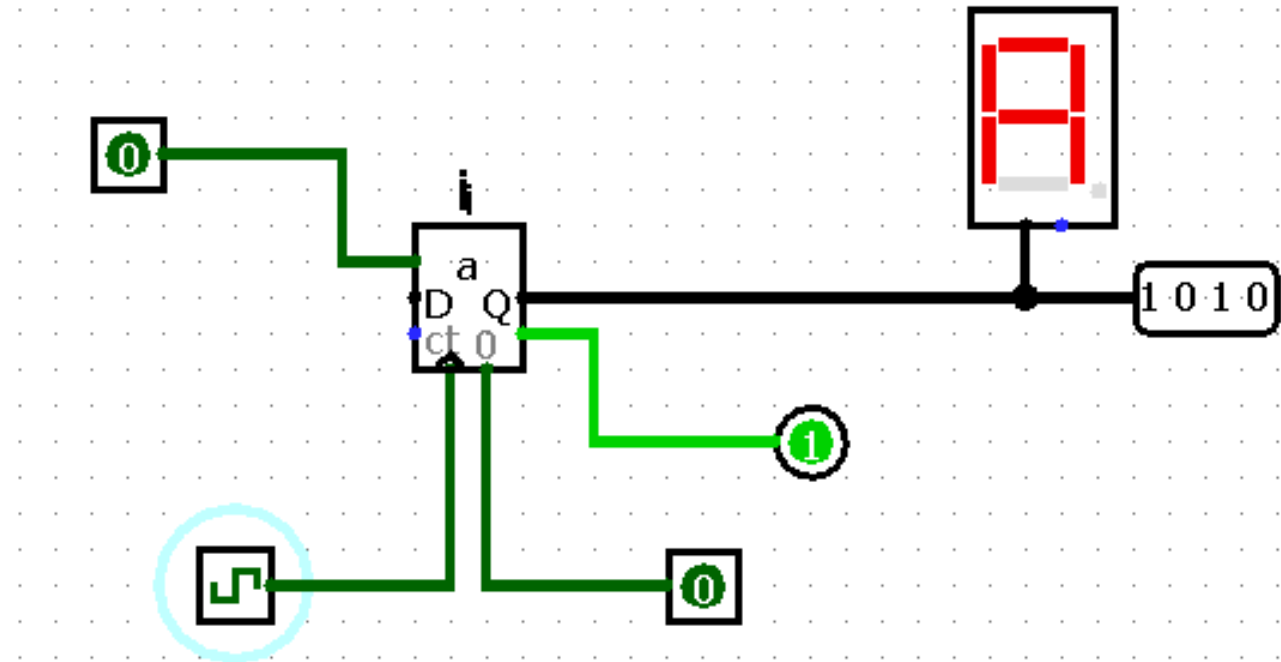


3. Compteurs synchrones de 4bits



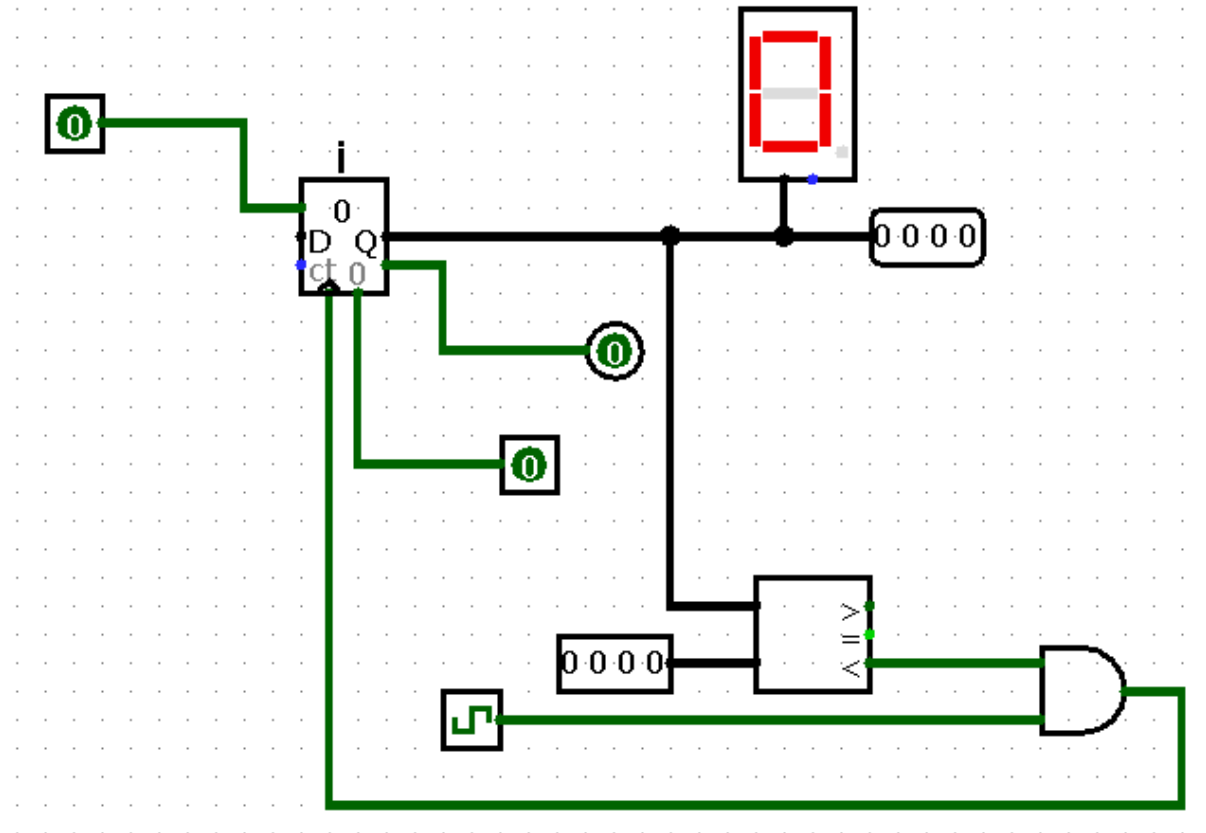
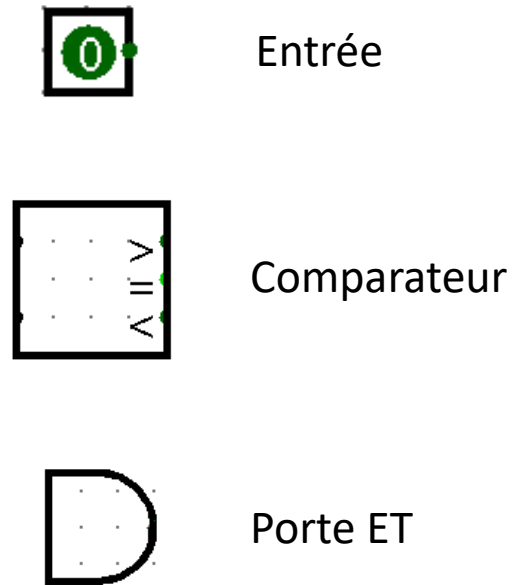
4. Compteur synchrone de 4bits à cycle incomplet

Selection: Counter	
Data Bits	4
Maximum Value	0xa
Action On Overflow	Wrap around
Trigger	Rising Edge
Label	i
Label Font	SansSerif Plain 12



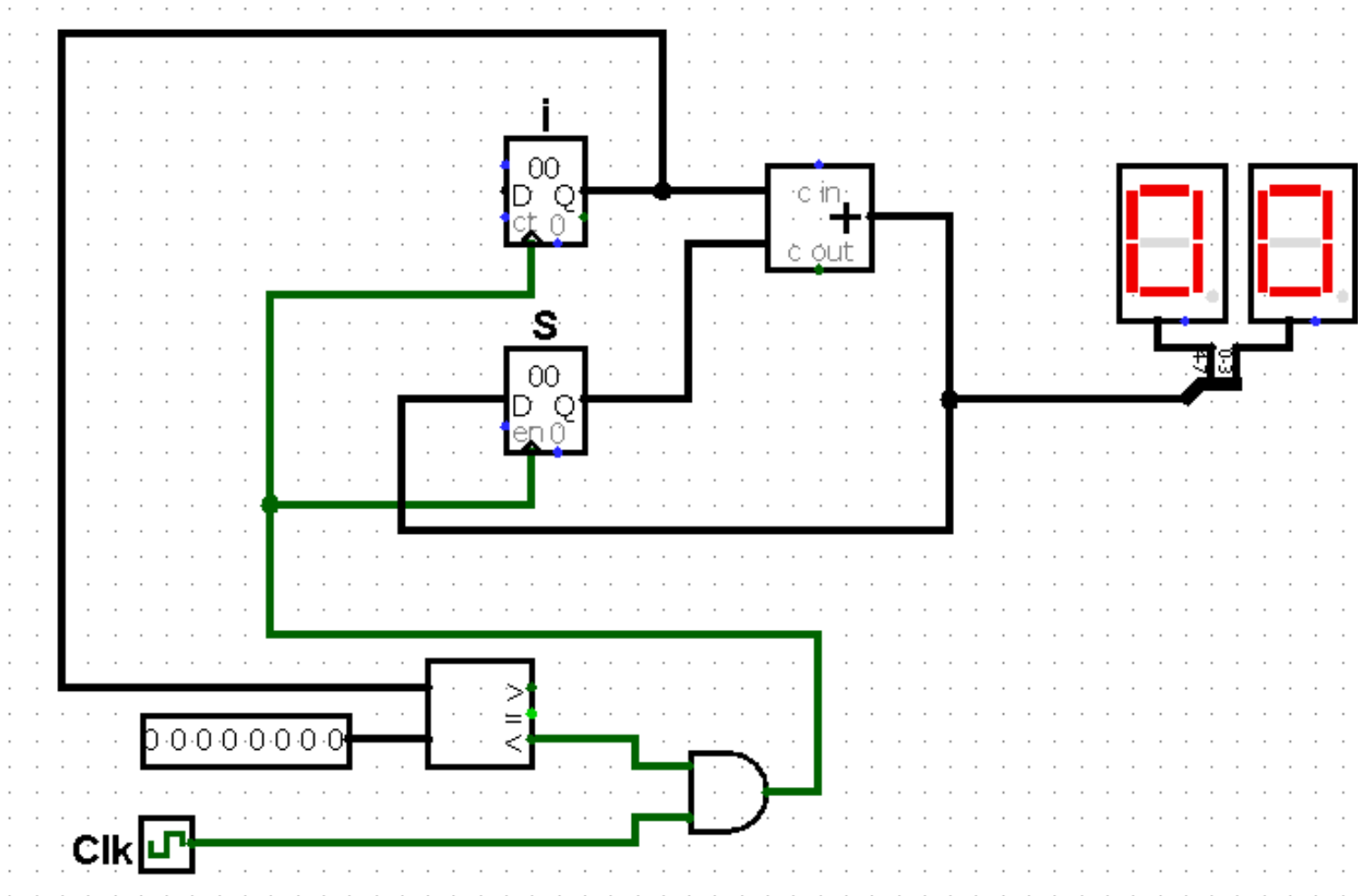
4. Compteur synchrone de 4bits à cycle incomplet

De plus par rapport au compteur à cycle complet:



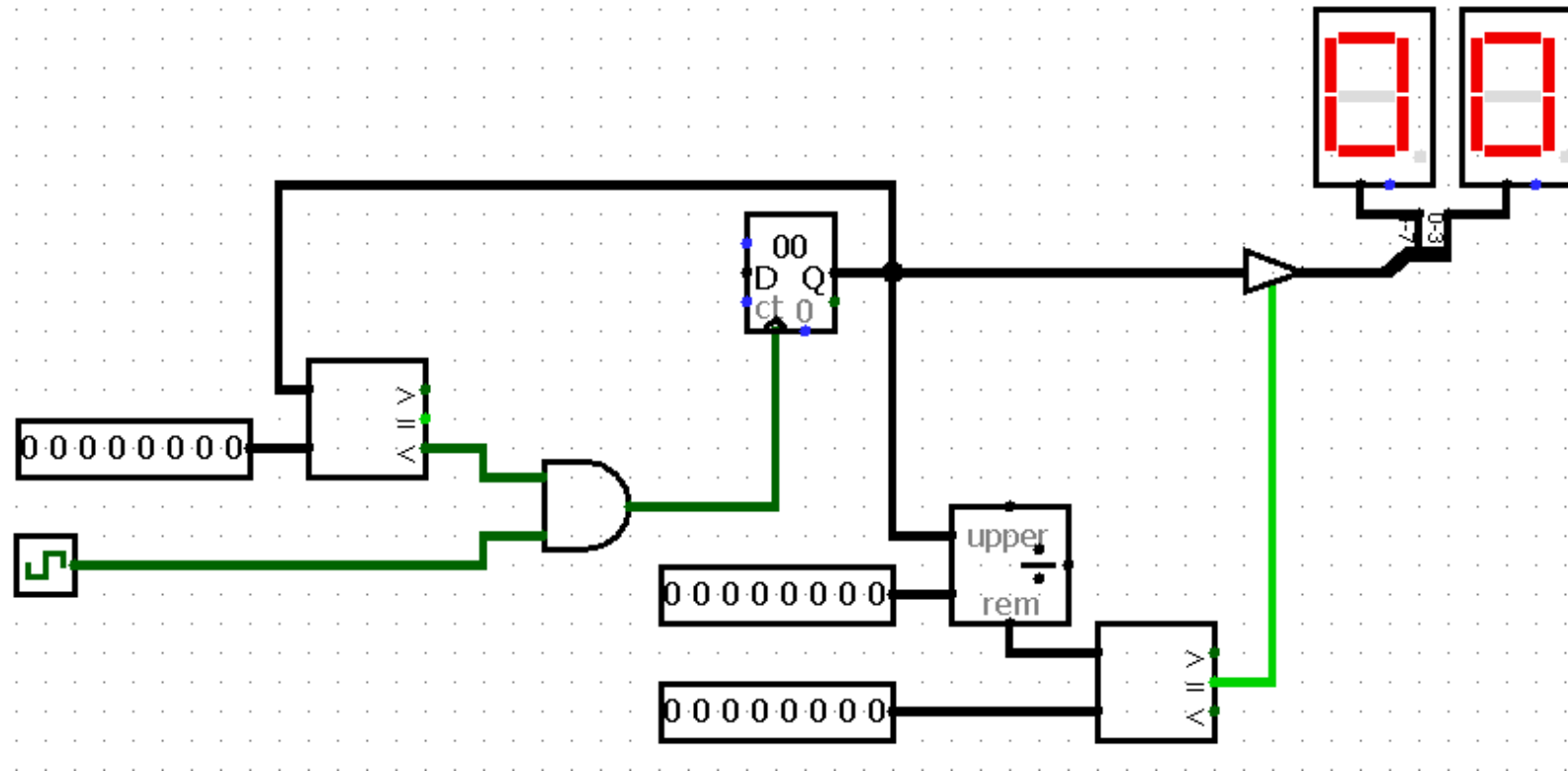
3. Réalisation de Boucles

```
for ( i = 1 ; i <= 20 ; i++)  
    S = S + i ;
```



3. Réalisation de Boucles

```
for ( i = 0 ; i <= 100 ; i++)  
    if (i %2 == 0)  
        printf("%d", i);
```



The end