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; TestIt
; Version 1.0
; Date: 10/24/2014
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; -----

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TestIt: Simulation

Called from BlinkIt:

```

    bst r16,0
    rcall TestIt
ret
TestIt:
→ mov r16,spiLEDS
  sbr r16,0b10000000
  brts done
  cbr r16,0b10000000
done:
  mov spiLEDS,r16
  rcall WriteDisplay
ret

```

| Name | Value | Type | Location |
|--------|----------|--------------|-------------|
| r16 | 0xFF 'y' | Register | R16 |
| spiLED | 0x00 '' | Register | R9 |
| SREG | 0x55 'U' | I/O Register | 0x003F [IO] |
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Figure 1: T is set from BlinkIt.

```

BlinkIt:
● lds r16,blink
  com r16
  sts blink,r16
  bst r16,0
  rcall TestIt
ret
TestIt:
  mov r16,spiLEDS
  sbr r16,0b10000000
  brts done
  cbr r16,0b10000000
done:
  mov spiLEDS,r16
→ rcall WriteDisplay
ret

```

| Name | Value | Type | Location |
|--------|----------|--------------|-------------|
| r16 | 0x80 '€' | Register | R16 |
| spiLED | 0x80 '€' | Register | R9 |
| SREG | 0x55 'U' | I/O Register | 0x003F [IO] |
| | | | |
| | | | |
| | | | |
| | | | |

//output to display

Figure 2: T is set so it branch to done then copy r16 to LED.