

```
.nolist
.include "m328pdef.inc"
.list
```

```
.cseg
.org 0x0000
reset:    JMP main
```

```
.org 0x0040
main:
```

```
    LDI R16, 0x96 // se declaran las variables
    LDI R17, 0x00
    LDI R18, 0x00
    LDI R19, 0x00
    LDI R20, 0x0
loop: //loop para sumar
    CPI R20, 0x0A
    BREQ result //salta si la bandera z es 1
    ADD R18,R16
    ADC R19,R17
    INC R20
    RJMP loop
```

```
result:
    STS 0x0100, R19 //se guarda el resultado en la posicion de memoria indicada
    STS 0x0101, R18
break
```


avr_sim tarea2

R

 Restart

S

 Step

P

 Skip

G

 Run/Go

X

 Stop

Simulation status

Prog counter = \$000000

Instructions = 0

Stackpointer = \$0000

Watchdog = 0.00000%

Clock frequ. = 1,000,000 Hz

Time elapsed = 0.00 ns

Stop watch = 0.00 ns

SREG

I	T	H	S	V	N	Z	C
0	0	0	0	0	0	0	0

Update status Instructions 1000 Step Delay ms 10

Register

Reg	+0	+1	+2	+3	+4	+5	+6	+7
R0	00	00	00	00	00	00	00	00
R8	00	00	00	00	00	00	00	00
R16	00	00	00	00	00	00	00	00
R24	00	00	00	00	00	00	00	00

Messages

\$0000: Starting

Show internal hardware

☐ Ports
☐ Timers
☐ WDT
☐ ADC
☐ EEPROM
☒ SRAM

Tools

☐ Scope
☐ Aler

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