

CÓDIGO:

```
1 .data
2     valor: .word 0xFE
3
4 .text
5 main:
6
7     # Escrever o valor 0xFE no endereço de memória 0x1000000C
8     lui a0, 0x10000
9     addi a0, a0, 0x0C
10    li a1, 0xFE
11    sw a1, 0(a0)
12
13    # Ler o valor do endereço de memória 0x1000000C e escrever no registrador x10
14    lui a0, 0x10000
15    addi a0, a0, 0x0C
16    lw x10, 0(a0)
17
18    # Terminar o programa
19    li a7, 10
20    ecall
21
```

INÍCIO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero

0x00000000

ra (x1)

0x00000000

sp (x2)

0x7fffffff0

gp (x3)

0x10000000

tp (x4)

0x00000000

t0 (x5)

0x00000000

t1 (x6)

0x00000000

t2 (x7)

0x00000000

s0 (x8)

0x00000000

s1 (x9)

0x00000000

a0 (x10)

0x00000000

a1 (x11)

0x00000000

a2 (x12)

0x00000000

a3 (x13)

0x00000000

...

Display SettingsHex

PRIMEIRO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero

0x00000000

ra (x1)

0x00000000

sp (x2)

0x7fffffff0

gp (x3)

0x10000000

tp (x4)

0x00000000

t0 (x5)

0x00000000

t1 (x6)

0x00000000

t2 (x7)

0x00000000

s0 (x8)

0x00000000

s1 (x9)

0x00000000

a0 (x10)

0x10000000

a1 (x11)

0x00000000

a2 (x12)

0x00000000

a3 (x13)

0x00000000

...

Display SettingsHex

SEGUNDO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero

0x00000000

ra (x1)

0x00000000

sp (x2)

0x7fffffff0

gp (x3)

0x10000000

tp (x4)

0x00000000

t0 (x5)

0x00000000

t1 (x6)

0x00000000

t2 (x7)

0x00000000

s0 (x8)

0x00000000

s1 (x9)

0x00000000

a0 (x10)

0x1000000c

a1 (x11)

0x00000000

a2 (x12)

0x00000000

a3 (x13)

0x00000000

...

Display SettingsHex

TERCEIRO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero

0x00000000

ra (x1)

0x00000000

sp (x2)

0x7fffffff0

gp (x3)

0x10000000

tp (x4)

0x00000000

t0 (x5)

0x00000000

t1 (x6)

0x00000000

t2 (x7)

0x00000000

s0 (x8)

0x00000000

s1 (x9)

0x00000000

a0 (x10)

0x1000000c

a1 (x11)

0x000000fe

a2 (x12)

0x00000000

a3 (x13)

0x00000000

...

Display SettingsHex

QUARTO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero

0x00000000

ra (x1)

0x00000000

sp (x2)

0x7fffffff0

gp (x3)

0x10000000

tp (x4)

0x00000000

t0 (x5)

0x00000000

t1 (x6)

0x00000000

t2 (x7)

0x00000000

s0 (x8)

0x00000000

s1 (x9)

0x00000000

a0 (x10)

0x10000000

a1 (x11)

0x000000fe

a2 (x12)

0x00000000

a3 (x13)

0x00000000

...

Display SettingsHex

QUINTO

RunStepPrevResetDump

Machine Code	Basic Code	Original Code
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

console output

RegistersMemory

zero	0x00000000
ra (x1)	0x00000000
sp (x2)	0x7fffffff0
gp (x3)	0x10000000
tp (x4)	0x00000000
t0 (x5)	0x00000000
t1 (x6)	0x00000000
t2 (x7)	0x00000000
s0 (x8)	0x00000000
s1 (x9)	0x00000000
a0 (x10)	0x000000fe
a1 (x11)	0x000000fe
a2 (x12)	0x00000000
a3 (x13)	0x00000000

Display SettingsHex

FIM

RunStepPrevResetDump

0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

Invalid ecall 254

RegistersMemory

zero	0x00000000
ra (x1)	0x00000000
sp (x2)	0x7fffffff0
gp (x3)	0x10000000
tp (x4)	0x00000000
t0 (x5)	0x00000000
t1 (x6)	0x00000000
t2 (x7)	0x00000000
s0 (x8)	0x00000000
s1 (x9)	0x00000000
a0 (x10)	0x000000fe
a1 (x11)	0x000000fe
a2 (x12)	0x00000000
a3 (x13)	0x00000000

Display SettingsHex

MEMÓRIA

RunStepPrevResetDump

0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x0fe00593	addi x11 x0 254	li a1, 0xFE
0x00b52023	sw x11 0(x10)	sw a1, 0(a0)
0x10000537	lui x10 65536	lui a0, 0x10000
0x00c50513	addi x10 x10 12	addi a0, a0, 0x0C
0x00052503	lw x10 0(x10)	lw x10, 0(a0)
0x00a00893	addi x17 x0 10	li a7, 10
0x00000073	ecall	ecall

Invalid ecall 254

RegistersMemory

Address	+0	+1	+2	+3
0x10000024	00	00	00	00
0x10000020	00	00	00	00
0x1000001c	00	00	00	00
0x10000018	00	00	00	00
0x10000014	00	00	00	00
0x10000010	00	00	00	00
0x1000000c	fe	00	00	00
0x10000008	00	00	00	00
0x10000004	00	00	00	00
0x10000000	fe	00	00	00
0x0ffffffc	00	00	00	00
0x0ffffff8	00	00	00	00
0x0ffffff4	00	00	00	00

Jump to-- choose --UpDown

Display SettingsHex