ARM

https://cpulator.01xz.net/

Choose a system to simulate

Architecture

Any
Nios II
ARMv7
MIPS32r5
MIPS32r5 (no delay slots)
MIPS32r6
MIPS32r6 (no delay slots)

System

ARMv7 generic
ARMv7 DE1-SoC
ARMv7 DE1-SoC (v16.1)
Nios II generic
Nios II DE1-SoC
Nios II DE1-SoC (v16.1)
Nios II DE2-115

https://cpulator.01xz.net/?sys=arm-de1soc

Go

Demo examples:

```
.global _start
_start:
            mov r2, #13
            mov r3, #14
            add r0, r2, r3
_stop:

            b _stop
```

Demo examples:

```
.global _start
_start:
            mov r2, #13
            mov r3, #14
            add r0, r2, r3

            mov r7,#1
            mov r10,#3
            svc 0
```

Demo examples:

```
.global _start
_start:
main:
        mov     r0, #0
loop:
        cmp     r0, #512
        beq     end
        add     r0, r0, #1
        b loop              /* repeating the loop */

_stop:
            b _stop
```

Fix:

```
.global _start
_start:
            mov r2, 13
            mov r3, 14
            add r0, r2, r3
_stop:
            b _stop
```

Fix, use hex

```
.global _start
_start:
        mov r2, 13
        mov r3, 14
        add r0, r2, r3
_stop:
        b _stop
```

Tasks

Fix errors in examples

Create a loop that will count from 0 to 1024 in register R10

ALGEBRA

Thank you for your attention!