## S3(3) - Recunoastere cod MIPS (simplu)

Tuesday, January 10, 2023 11:45 PM

## RECUNOASTERE COMPLETIME CON MIPS

(seed) La am Lurat ou & ripuri **de co**d generat (pentru cod CPZong ni pt. cod Cool) (orientat duied) .

Exnétile tes tes mu ver bon surámue varotament siet.

La examen, el mai probabil va fi cod Cool => orientat obiet (nedeti exemple resolvat)

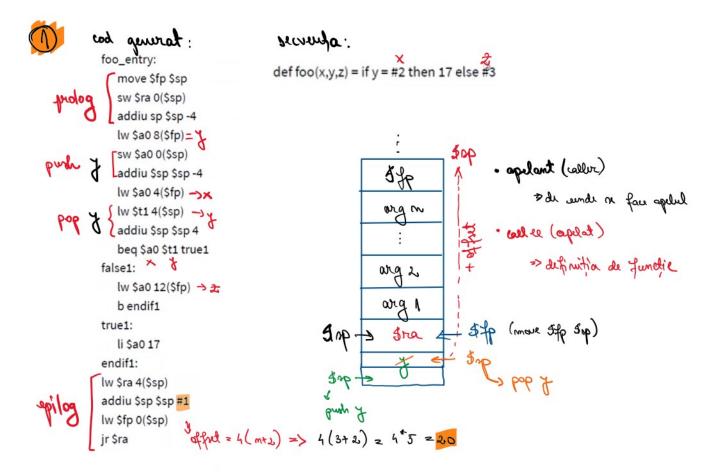
## Generarea de cod pentru apelurile de funcție

## Generarea de cod pentru definițiile de funcție

```
1 \text{ cgen}(f(e1, \ldots, en)) =
      sw $fp 0($sp)
                                                                  cgen(f(x1, ..., xn) { e }) =
      addiu $sp $sp -4
                                                                      move $fp $sp
       cgen (en)
                                                                       sw $ra 0($sp)
       sw $a0 0 ($sp)
                                                                       addiu $sp $sp -4
       addiu $sp $sp -4
                                                                       lw $ra 4($sp)
       cgen(el)
                                                                       addiu $sp $sp offset
       sw $a0 0($sp)
                                                                       lw $fp 0($sp)
       addiu $sp $sp -4
10
```

Depunerea parametrilor în ordine inversă.

offset = 4n + 8: n parametri, \$ra, \$fp



=> 年1 2 40 7 422 × 43 = 关

```
f:

move $fp $sp

sw $ra 0($sp)

addiu $sp $sp -4

sw $fp 0($sp)

addiu $sp $sp -4

lw $a0 4($fp) > perant ($)

sw $a0 0($sp)

addiu $sp $sp -4

lw $a0 8($fp) > perant 2($)

sw $a0 0($sp)

lw $a0 8($fp) > perant 2($)

sw $a0 0($sp)

lw $a0 8($fp) > perant 2($)

sw $a0 0($sp)

lw $addiu $sp $sp -4

lw $addiu $sp $sp -4

lw $fp 0($sp)

addiu $sp $sp 16

lw $fp 0($sp)

lw $fp 0($s
```

\$(x,y) = 19(y,x) }