bunny Ears: bey \$00, \$0, base Case alli \$sp, \$sp, -4 sw. \$ra, 0 (\$sp) addi \$00, \$00, -1. jal bunny Ears addi \$ vo, \$ vo, 2 In \$12,0(\$5p) addi \$sp. \$sp. 4

base Case:

ald \$vo, \$0, \$0

jr. \$ra



int bunny Ears (int bunnies) {

if (bunnies == 0)

return 0;

else

return 2 + bunny Ears (bunnies -1);

3

| • | \$va | |
|---|------|--|
| - | \$va | |
| - | \$ra | |
| | \$12 | |
| T | \$11 | |
| | 3VA | |

Key points

- usc \$40 for return Recursive example:

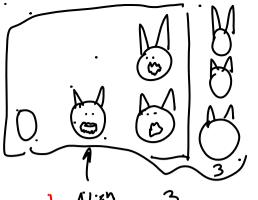
Compute the sum of 0 to n

int
$$Sum(int n)$$
 {

[if $(n=0)$

return 0;

else



MIPS addressing modes

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