

# Pauta Auxiliar 3

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## Problema 1

```
int n=10;
if (n==0||n==1) return 1;
int eax = 1;
ciclo (n>0) eax *= n--;
```

## Problema 2

```
bubblesort:
    movl $0, %ecx                #c=0
    movl $0, %edx                #d=0
    movl 12(%ebp), %ebx          #ebx=len
    decl %ebx                    #len-1
for1:
    cmp %ecx, %ebx               #c?(len-1)
    jge outFor1                 #c>=(len-1)
    movl 12(%ebp), %eax          #eax=len
    decl %eax                   #len-1
    subl %ecx, %eax              #len-1-c
for2:
    cmp %edx, %eax               #d?(len-1-c)
    jge incFor1                 #d>=(len-1-c)
if:
    movl 8(%ebp, %edx, 4), %esi   #array[d]
    incl %edx                    #d=d+1
    movl 8(%ebp, %edx, 4), %edi   #array[d+1]
    cmp %esi, %edi               #array[d]?array[d+1]
    jle for2                     #continue with for2
    movl %esi, 8(%ebp, %edx, 4)   #array[d+1]=array[d]
    decl %edx                    #d=d-1
    movl %edi, 8(%ebp, %edx, 4)   #array[d]=array[d+1]
    incl %edx                    #d=d+1
    jmp for2                     #continue with for2
incFor1:
    incl %ecx                    #c=c+1
    jmp for1                     #continue with for1
outFor1:
    ret                          # we are done :)
```