

Previo AC

1)

```
    movl $0, %eax
    movl $0, %ebx
    movl $Matriz, %ecx

for:   cmpl $10, %eax
       jge end

       movl $120, %edx      # %edx = ixNx4
       addl %ecx, %edx      # %edx = Matrix[3][0]
       addl (%edx, %eax, 4), %ebx #sum += Matrix[3][i]

       incl %eax
       jmp for

end:
```

fórmula = @mat + (ixN+j)x4

2)

```
    movl $0, %eax
    movl $0, %ebx
    movl $Matriz, %ecx # Matriz[0][0]
    addl $120, %ecx # Matriz[3][0]

for:   cmpl $10, %eax
       jge end

       addl %ecx, %ebx      # %edx -> suma += Matrix[3][0]
       addl $4, %ecx
       incl %eax
       jmp for

end:
```

fórmula = @mat[fila-1][columna]+N*4

Las instrucciones de la versión aleatoria son: 75

Las instrucciones de la versión secuencial son: 66

3)

```
    movl $0, %eax           #i
    movl $0, %ebx           #j
    movl $ResFila, %ecx      #@resFila
    movl $1, %ecx            #ResFila[0]=1
for:  cmpl $10, %eax
      jge ffor
      movl $Matriz, %edx      #Matriz[0][0]
      imull $10, %eax, %esi    #i*10
      addl %ebx, %esi         #i*10+j
      movl (%edx, %esi, 4), %edx #Matriz[i][j]

while: cmpl $0, %edx
       je fiwhile

if:    cmpl $100, %edx
       jne fiw
       movl (%ecx, %eax, 4), %ecx #ResFila[i]
       imull %edx, %ecx          # ResFila[i]*=Matriz[i][j]
       jmp while

fiif:  incl %ebx              #++j
       jmp while

fiw:   incl %eax              #i++
       xor %ebx, %ebx         #j=0
       movl $1, %ecx
       jmp for
ffor:  
```