```asm
;
; nth_triangle.asm
;
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;

.def sum=r16
.def input=r17
.def count=r18

        ldi sum, 0
        ldi input, 3
        mov count, input

loop:
        add sum, count
        dec count
        brne loop

        sts output, sum


done:
        jmp done

.dseg
.org 0x200
output: .BYTE 1
```

Handwritten annotations:

Jump
rjump ; jump within 2k spaces.

dec count ; set Z to 1 if result is zero
brne loop ; check Z flag