DOCUMENTATION:

Rreferences:

- Grassmann, Winfried K., Jean-Paul Tremblay (1996). Logic and Discrete Mathematics.
- Manual de Frama-C WP.

- 1. Mathematical Proof
- Precondition: Given i = 0 and i = -

Given i = 0 and j = -2: 0*(-2) + 2*(-2) + 3*0 = 0

- Transformation:

Asigna j=3 (cumple j' = j+3) Asigna i=2 (cumple i' = i+2)

- Postcondition:
- 2 * 3 = 6 check the required condition
- 2. Verification Process
- Tools Used:
- . Frama-C 30.0 (Zinc) with WP plugin.
- . Alt-Ergo 2.6.1 (prover).
- Command:

frama-c -wp practice3.c

- Result:

[wp] Proved goals: 5 / 5

Terminating: 1 -- Guaranteed completion
Unreachable: 1 -- Unreachable code
Qed: 2 (0.92ms) -- Objectives solved by Qed
Alt-Ergo: 1 (12ms) -- Objective solved by Alt-Ergo

3. Limitations

- The code only works for inputs i=0, j=-2.