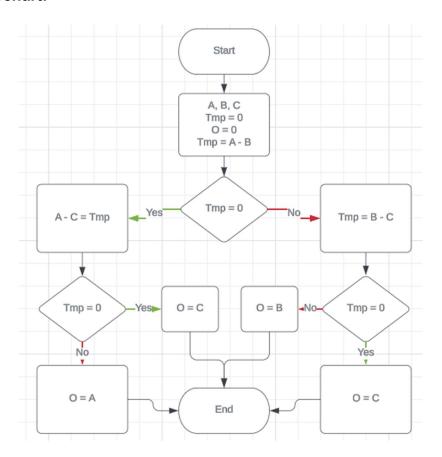
# **Johnny – Comparing Program**

## Wiktor Zmiendak

### 1. Task:

Create a program in Johnny to compare three numbers and select the biggest one.

### 2. Flowchart:



### 3. Solution:

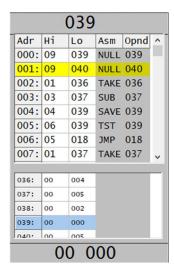
To determine the largest among three numbers A, B, and C, we employ a process using temporary variables TMP and O.

- 1. Begin by comparing A and B:
  - Subtract B from A and store the result in TMP.
  - o If TEMP = 0, B is greater than A. If TMP ≠ 0, A is greater than B.
- 2. If A was greater:
  - Subtract C from A.
  - o If the result = 0, C is the largest, store it in O.
  - $\circ$  If the result  $\neq 0$ , A is the largest, store it in O.
- 3. If B was greater (skip step 2):

- o Repeat the process with B and C:
  - Subtract C from B.
  - If the result = 0, C is the largest, store it in O.
  - If the result ≠ 0, B is the largest, store it in O.

### Program:

We will compare the values stored at addresses 036, 037, and 038, respectively



we have our output stored at address 033, and we see that the number 5 is the largest

