Johnny – Vector Program

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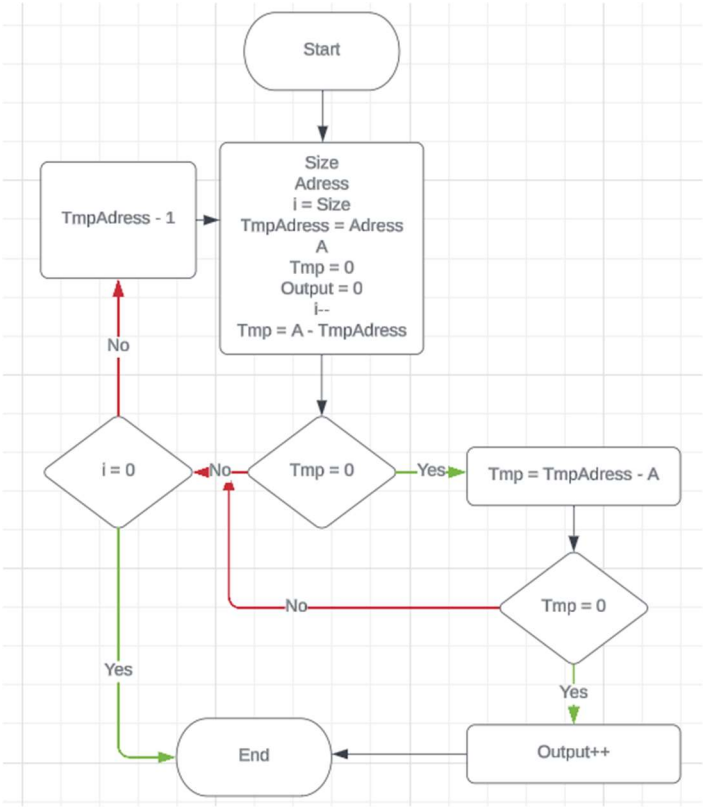
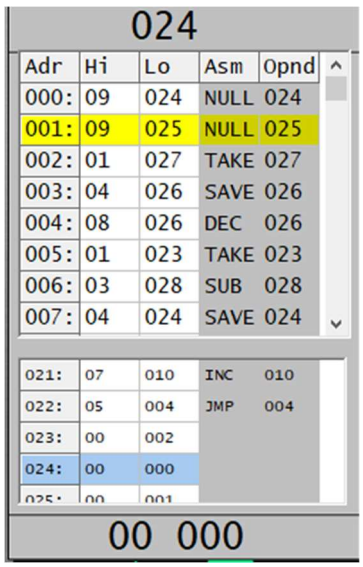
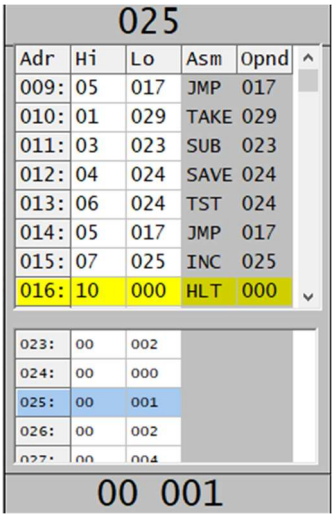
1. **Task:**
   Create a program in Johnny to handle vectors. It will be checking if a number occurs in the vector.

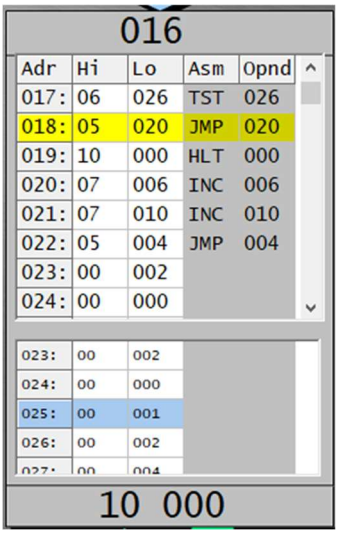
2. **Flowchart:**



3. **Solution:**







The program mainly uses subtraction and result verification to compare numbers for similarity. In each iteration, it starts by decrementing the counter i. Then, it compares two numbers by performing subtraction operations. First, it subtracts A from the current value in the vector, and then it subtracts the current value in the vector from A. If both results are zero, it indicates that the value is present in the vector. If at least one of the subtraction results is not zero, the program moves on to check the next value in the vector.