What happens if the LMC is executing a program and never encounters a "HALT" command?

The program will continue to execute until it encounters a location that contains “000”or a location that begins with a 4, which is an invalid operation code. This assumes that incrementing the program counter past

The program would not stop or interrupt a “run-away” or “infinite loop” and will continue to execute before it encounters a location that contains “000”or location that begin with a 4, which is that a invalid operation code.

The - Irv Englander *The Architecture of Computer Hardware and System Software A , 5th Edition,* Page 27.