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1) This is how I compiled and linked my program:
   make clean
   make

2) Then I tested my program with gdb:
   gdb ./mydemo

   a) set breakpoints at various functions using:
      b <function name> or b <line number>

   b) ran the program with:
      run

   c) checked various variable values using:
      p <variable name>

   d) examined the content of memory locations:
      x <memory address>
   e) stepped through the various statements using:
      s
   f) continuing with:
      c

3) Then I ran valgrind to ensure no memory leaks (even though no malloc was done):
   valgrind ./mydemp --leak-check=yes