```
& NOTICE WE HAVE 4 FUNCTIONS : MAIN, F. G. H
                          IN MAIN, IT FERS LIKE WE HAVE Y "LEVELS" LO-13 - INDICATE NETTING OR FUNCT
                                                                                                                               emis?
                                                                                                       SUB THE ARUS
                                                                                                                 SAVE IN
                                                                                                                NEW VAR C
                      .globl
                              Xmain
                                                                               subl
                                                                                       %ecx, %eax
             Xmain:
                                                                               pushq
                                                                                       %rax
                                           PROLOGUE
                              %rbp
                                                                                       -8(%rbp), %eax
                      pusha
                                                                               movi
                              %rsp, %rbp
                      mova
                                                                                       %rax
                                                                               pushq
                                            3 NEW VANABLUS
                              $1, %eax
                      mov
                                                                               pusha
                                                                                       %rsi
                                                                                                   7 THIC IS how C
                                                                                                         BELAUSE WE'RE IN A
                                             t, y, q initialized
                      pusha
                              %rax
                                                                               pushq
                                                                                                              NEW FUNCTION
                      movi
                              $2, %eax
                                                                                       -8(%rbp), %edi
                                                                               movi
                      pushq
                              %rax
                                                                               call
                              $2, %eax
                      mov
                                                                                       %rax. %rcx
                                                                               mova
                      pushq
                              %rax
                                                                                       %rdi
                                                                                                                  WITH C AS
                                                                               popa
                      jmp
                              11
                                                                                       %rsi
                                                                               papa
                                                                                                            An ARU, MULT BY
                                                                                                        CALL
                                           new var! 2=0
            10:
                                                                                       %rax
                                                                               popq
                              $0. %eax
                                                                                                                        JAVE IN L
                      mov
                                                                               imull
                                                                                       %ecx, %eax
                                                                                                               C. MUD
                                                                                       %eax, -8(%rbp)
                      pushq
                              %rax
                                                                               mov
                      jmp
                                                                                       -8(%rbp), %eax
                                                                               movi
             12:
                                                                               movq
                                                                                       %rbp, %rsp
                                                                                                      EPILOUVE
                              -16(%rbp), %edi
                      movl
                                                                               popq
                                                       THESE
                                                      WILL BE
                              -32(%rbp), %esi
                      movi
                                                                               ret
TRICKY PART
                                                      ARUS SINCE
                      call
                                                     Call Xf 11 next
                      movl
                              %eax, -16(%rbp)
                                                                               .globl
                                                                                       Xg
 HERE, DON
                              -32(%rbp), %edi
                      movl
                                                                      Xg:
some tral+
                      call
                                                                               pushq
                                                                                       %rbp
                                                                                                      PROLULUE
emor, But
                      mova
                              %rax, %rdi
                                                                               movq
                                                                                       %rsp, %rbp
                      call
                              Xh
                                                                                       $2, %eax
                                                                               movi
SINCE THE INSTr.
                                                    INCREMENT
                              %rax, %rdi
                                                                                       %edi, %esi
                                                                                                     A24
                      mova
                                                                               movi
                                                                                                                 2 * APU - APU
                              Xprint
                                                        Z HERE
                                                                               imull
                                                                                       %esi, %eax
ARE SO COMPACE
                                                                     Pelch
                      movi
                              $1, %eax
                                                                               movi
                                                                                       %edi, %esi
                                                                                                 - AD4
                              -32(%rbp), %edi
                      mov
                                                                               subl
                                                                                       %esi, %eax
IT MIGHT GIVE
                      addl
                              %edi, %eax
                                                                               mova
                                                                                       %rbp, %rsp
                                                                                                      ESILOGUE
                      movl
                              %eax, -32(%rbp)
                                                                                       %rbp
                                                                               popq
US A CLUE 13:
                                                                               ret
  OF MESTING.
                      movi
                              -8(%rbp), %eax
                                                                                       Xh
                      mov
                              -32(%rbp), %edi
                                               while (2 < t)
                                                                      Xh:
                      cmpl
                              %eax, %edi
                      j1
                                                                               pusha
                                                                                       %rbp
                                                                                                     PROLOGUE
                                                                               movq
                                                                                       %rsp, %rbp
                      movl
                              -16(%rbp), %edi
                                                                                                            IF APUT 2, Jump
                                                MHEN LYNI INNT INC
                      call
                                                                                       $2, %eax
                                                                               movi
     Inner while
                      movl
                              -16(%rbp), %eax
                                                                               movi
                                                                                       %edi. %esi
                                                                                                            OTHERMISE REPAYN!
                                                         point y' men
                                                                                       %eax, %esi
                              -24(%rbp), %edi
                                                                               cmpl
                      mov
                                                                                       14
                      imull
                              %edi %eax
                                                                               inl
        1008
                      movi
                              %eax, -16(%rbp)
                                                                               movi
                                                                                       $1, %eax
                                                  exiti
                                                         4=
                               -8(%rbp), %eax
                                                                                       %rbp, %rsp
                      movi
                                                                               mova
                                                                                                     EPILOGUE
                      movi
                              $1, %edi
                                                                               popq
                                                                                       %rbp
                                                   wen
                      addl
                              %edi, %eax
                                                                               ret
                              %eax, -8(%rbp)
                      mov
                                                                      14:
                      addq
                              $8, %rsp
                                                                               pushq
                                                                                       %rdi
                                                                                       -8(%rbp), %edi
             11:
                                             RELOUNITE A
                                                                                                        NOTICE 2 CARUL TO H.
                                                                                       $1, %esi
                      movi
                              $10. %eax
                                                                               movi
  while t<10 LOOP
                                              WHILE LOOP!
                                                                                       %esi, %edi
                              -8(%rbp), %edi
                                                                               subl
                      mov
                                                                                                           NO MMS, Dr roobs 1x
                      cmpl
                              %eax, %edi
                                                                               call
                                                                                       Xh
                      il
                                                                               popq
                                                                                       %rdi
                                                                                                               new vares. HINT
                                                              SUB I From
                                                                                                               THAT IT COULD BE
                               -8(%rbp), %edi
                                                                                       %rax
                      mov
                                                                               pushq
                                                             NEW I THEN CALL
  THESE INSTRUCTION
                      call
                              Xprint
                                                                               pushq
                                                                                       %rdi
                                                                                       -16(%rbp), %edi
                      mova
                               %rbp, %rsp
                                                                               movi
                                                                                                               A RECONSINE RETU
                                            EPI LOUVE
                                                                                       $2. %esi
                              %rbp
                      popq
                                                                               mov
                                                               H or Ir
  will occur
                                                                                       %esi, %edi
                      ret
                                                                               subl
   AFFER LOOP,
                                                                               call
                                                                                       Xh
                      .globl
                              Xf
                                                                               movq
                                                                                       %rax, %rsi
   Print t.
              Xf:
                                                                                       %rdi
                                                                               popq
                                                             SUB 2 FROM
                              %rbp
                      pushq
                                                                                       %rax
                                                                               popq
                                            PROLUGUE
                               %rsp, %rbp
                                                                               addl
                                                                                       %esi, %eax
                      mova
                                                              MRU, PHON
                                                                               movq
                                                                                       %rbp, %rsp
                                                               CKN H on It
                                                                                                    ADDITIONAL RETURN!
                      movl
                               %edi, %eax
                                                                               popa
                                                                                       %rbp
                      movi
                              %esi, %ecx
                                                                               ret
                                                                                                         FOLLDGUE
                                                                         ADD THERE
                                                                           mo return!
                                                                                            * * CLUE THAT THERE WILL
                         THERE ARE TYPILMLY
                                                                                                 BE MO RETN'S HERE
                                 ARUUMEND
```