R0 <- PROMPT2 “Select Any Key to count..”

Yes

No

R2 <- R2+(-10) ;check if new line

R2 <- R2+R0

R2 <- 0 ;clear R2

R1 <- R0

R1 <- R1+1

R2 == 0? (DONE?)

R1<- starting address

R0 <- input (GETC)

PUTS; Display prompt

R0 <- PROMPT 1 “Enter name”  
“

start

PUTS; Display prompt

R0 <- input (GETC)

R1 <- starting address

R2 <- (-3) ;subtract value

R3 <- ENCRYPT ;load subroutine

R7 <-PC ;JSRR R3

PC <-R3

R0 <- R1

PUTS; Display encrypted name

R0 <- R1

R3 <- R0

R3 == ‘ ‘? (DONE?)

YES

NO

R3 <- R3 + R2 ;encrypt

R0 <- R3

R0 <- R0 +1 ;increment

R3 <- R0 ;load next