.ORIG x3000

LEA R0, HEADIN1

PUTS

LD R0, NEWLINE

OUT

LEA R0, HEADING2

PUTS

LD R0, NEWLINE

OUT

RESTART LEA R0, PROMPT

PUTS

GETC

ADD R3, R0, #0

ADD R3, R3, #-16

ADD R3, R3, #-16

ADD R3, R3, #-16

BRzp ZP

HALT

ZP AND R7, R7, #0

ADD R7, R7, #6

NOT R7, R7

ADD R7, R7, #1

ADD R6, R3, R7

BRnz CONT

HALT

CONT LEA R0, DAYS

ADD R3, R3, x0

LOOP BRz DISPLAY

ADD R0, R0, #10

ADD R3, R3, #-1

BR LOOP

DISPLAY PUTS

LD R0, NEWLINE

OUT

BR RESTART

HEADING1 .STRINGZ " LAB 3"

HEADING2 .STRINGZ " DAYS OF THE WEEK"

PROMPT .STRINGZ "Input an integer: "

DAYS .STRINGZ "Sunday "

.STRINGZ "Monday "

.STRINGZ "Tuesday "

.STRINGZ "Wednesday"

.STRINGZ "Thursday "

.STRINGZ "Friday "

.STRINGZ "Saturday "

NEWLINE .FILL x0A

.END