\*----------------------------------------------------------------------

\* Programmer: Jose Carlos Gomez

\* Class Account: cssc1268

\* Assignment or Title: Program 1

\* Filename: prog1.s

\* Date completed: 10/12/17

\*----------------------------------------------------------------------

\* Problem statement:

\* Input: 2 numbers

\* Output: The day determined by the numbers

\* Error conditions tested:

\* Included files:

\* Method and/or pseudocode:

\* References:

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ORG $0

DC.L $3000 \* Stack pointer value after a reset

DC.L start \* Program counter value after a reset

ORG $3000 \* Start at location 3000 Hex

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#minclude /home/cs/faculty/cs237/bsvc/macros/iomacs.s

#minclude /home/cs/faculty/cs237/bsvc/macros/evtmacs.s

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\* Register use

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\*----------------------------------------------------------------------

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start: initIO \* Initialize (required for I/O)

setEVT \* Error handling routines

\* initF \* For floating point macros only

lineout header

lineout prompt

linein input

cvta2 input,#1

move.b D0,dayNum

cvta2 input+2,#2

move.b D0,D3

add.b dayNum,D3

divu #7,D3

swap D3

ext.l D3

lea days,A1

mulu #23,D3

add.l D3,A1

lineout (A1)

break \* Terminate execution

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\*----------------------------------------------------------------------

\* Storage declarations

header: dc.b 'Program #1, Jose Carlos Gomez, cssc1268',0

prompt: dc.b 'Enter the start day [1-7] and the number to add [01-20]: ',0

input: ds.b 10

dayNum: dc.b 00

daysA: dc.b 00

days: dc.b 'That day is Sunday. ',0

dc.b 'That day is Monday. ',0

dc.b 'That day is Tueday. ',0

dc.b 'That day is Wednesday.',0

dc.b 'That day is Thursday. ',0

dc.b 'That day is Friday. ',0

dc.b 'That day is Saturday. ',0

dc.b 'That day is Sunday. ',0

end