

Assembly listing for: HW4.mas

Assembled: Fri Oct 06 10:15:29 CDT 2017

```
000 A000 |          CLEAR
001 5000 |  WHILE    INPUT
002 2016 |          STORE VALUE
003 8400 |          SKIPCOND 400
004 9006 |          JUMP WHILE_BODY
005 9011 |          JUMP END_WHILE
006 8000 |  WHILE_BODY SKIPCOND 000
007 9009 |          JUMP POS
008 900D |          JUMP NEG
009 1017 |  POS      LOAD POS_SUM
00A 3016 |          ADD VALUE
00B 2017 |          STORE POS_SUM
00C 9001 |          JUMP WHILE
00D 1018 |  NEG      LOAD NEG_SUM
00E 3016 |          ADD VALUE
00F 2018 |          STORE NEG_SUM
010 9001 |          JUMP WHILE
011 1017 |  END_WHILE LOAD POS_SUM
012 6000 |          OUTPUT
013 1018 |          LOAD NEG_SUM
014 6000 |          OUTPUT
015 7000 |          HALT
016 0000 |  VALUE    DEC 0
017 0000 |  POS_SUM  DEC 0
018 0000 |  NEG_SUM  DEC 0
|
```

Assembly successful.

SYMBOL TABLE

Symbol	Defined	References
END_WHILE	011	005
NEG	00D	008
NEG_SUM	018	00D, 00F, 013
POS	009	007
POS_SUM	017	009, 00B, 011
VALUE	016	002, 00A, 00E
WHILE	001	00C, 010
WHILE_BODY	006	004