

Entry

Load the address of String1 into r0
Load the address of String2 into r1
Initialize index counter in r3

Load character from String1
into r2

Check if r2 is equal to EoS

YES

NO

Make a copy index into r4 to look
ahead

Check if character equal to ' '

NO

Check if r3 is equal to zero

YES

Execute Subroutine
ld-nxt

Execute Subroutine
ld-nxt

Execute Subroutine
ld-nxt

Execute Subroutine
ld-nxt

Check if char equal to 't'

NO

Restore char at original
index (r3)

Check if char equal to 'h'

NO

Restore char at original
index (r3)

Check if char equal to 'e'

NO

Restore char at original
index (r3)

Check if char equal to 'i'

NO

Restore char at original
index (r3)

Check if char equal to 0x00

YES

Update r3 to equal r4

Store Char into String2

Increment String2 pointer

Terminate

