

1. Is it possible to use integer registers instead of float registers?

> It is possible to use only integer registers instead of float registers.

To this, read in feet and inches as integers. When converting to meters, determine the total inches. Then, instead of multiplying by 0.0254, multiply instead by 254, which will retain the integer property. However, the number yielded will be 10,000 times bigger than the actual number of meters. i.e., then number is shifted (in decimal) to the right 4 times. To fix this, simply use the div op to divide the number by 10,000, and the result will be stored in hi and lo, where lo contains the integer quotient, and hi contains the remainder. Simply output the lo register followed by the '.' character followed by the hi register, and it will display the total meters.

EXAMPLE: (pseudo code)

```
inches = 100
mult inches, inches, 254 # inches = 25400
div inches, inches, 10000 # lo = 2, hi = 5400.
print lo
print '.'
print hi
```

OUTPUT: 2.5400