Assignment Day 4

Question 1

## 5010:

First of all, beg + (end-beg) 12 works even if you are using pointers, as long as end-beg doesn't overflow.

second of all, begtend 12 won't overflow of beg and end are large positive numbers

80, it is suggested to calculate the mid as begt (end-beg)/2

: 1 m = h

cm = T

(1) 7 arutes

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Question 2
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q. function for Ternary Scarch

8010:

double ternary - search (double 1, double 8) {

double eps = le-9;

while (x-1 rep3) {

double  $m_1 = 1 + (x-1)/3$ ;

double  $m_2 = x - (x-1)/3$ ;

o has has pad

double  $f_1 = f(m_1)$ ; double  $f_2 = f(m_2)$ ;

if  $(f(\zeta f_2))$   $1 = m_1;$ else  $7 = m_2;$ geturn f(1);