

TCSS 343 - Week 2 - Thursday

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Master Theorem

“To tell the truth is an act of love. To withhold the truth is an act of hate.
Or worse, apathy”.

...

Gene Kim

“All claims of education notwithstanding, the pupil will accept only that
which his mind craves”.

...

Emma Goldman

“Power concedes nothing without a demand. It never did and it never will”.

...

Frederick Douglass

0. The instructions for this problem are in the comments lines 1 through 4.

```
1 // Show each value of i, j and k for each line executed
2 // in the while loop (lines:11, 13, 15, 16, 18) and the
3 // final values of i, j and k for when a = -1, b = 1 and
4 // a = 1, and b = -1 and finally when a = 0 and b = 0.
5 #include <stdio.h>
6 int main(void) {
7     int i = 1;
8     int j = 0;
9     int k = -1;
10    int a = 1;
11    int b = -1;
12    while (i > j) {
13        i = i + a - 2 * j;
14        if (j >= k) {
15            i = i + 2;
16            k = k - b + 2 * j;
17        }
18        j++;
19    }
20 }
```