Practice exiting loops

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1 README

- Practice workbook for exiting loops in C
- See `cc100/6_loops/README.org` in GitHub for script/solutions

1.1 Emacs tip

To **not** see the emphatic characters like ~ or * or / in the Org file text, run the following code chunk (or put the code in your `/.emacs` file): if successful, you should see `"t"` in the minibuffer.

```
(setq-default org-hide-emphasis-markers t)
```

If you don't put it in your `/.emacs` file, the command will only work for the current Emacs session.

2 The do statement

2.1 Countdown example

1. Rewrite the countdown code 1 below using `do...while`.
2. Run the code block.
3. How would the concise version of the code look like? Try it.

```
int i = 10;
do {
  printf("T minus %d and counting\n", i);
  i--;
 } while (i > 0);
printf("i = %d\n", i);
```

```
T minus 10 and counting
T minus 9 and counting
T minus 8 and counting
T minus 7 and counting
T minus 6 and counting
T minus 5 and counting
T minus 4 and counting
T minus 3 and counting
T minus 2 and counting
```

```
T minus 1 and counting
i = 0
```

2.2 Summing numbers

1. Rewrite the summing numbers code 1 below using `do...while` instead of `while`.
2. Remember that the first `scanf` statement is only needed because we start with a check if `n` is non-zero.
3. Run the code block.

```
int n = 0, sum = 0;

printf("Enter integers (0 to terminate).\n");
do {
  sum += n;         // sum = sum + n
  scanf("%d", &n);
 } while ( n != 0 );

printf("The sum is %d\n", sum);
```

```
Enter integers (0 to terminate).
The sum is 107
```

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