Mathematics 1266 (C Programming) Hilary 2019, second assignment

February 4, 2019

due by 9am Monday 11/2/19

Your program is to read in (double precision) numbers from the keyboard, count them, and print out the number read.

For example: in the example below, the numbers are not input from the keyboard, but from the file y. This is called *input redirection.*

```
prompt% cat y

 13 17 19 17 25 17 19 17 23 17 19
 23 17 19 17 77 17 19 17 23
 23 17 19 17 69 17 19 17 23 17 19 17 25 17 19 17
 23 17 19 17 71 17 19 17 23
 23 17 19 17 69 17 19 17 23 17 19
 23 17 19 17 75 17 19 17 23 17 19 17 25
 23 17 19 17 69 17 19 17 23 17 19
 23 17 19 17 71 17 19 17 23 17 19 17 25 17 19 17
 23 17 19 17 77 17 19 17 23 17 19 17
 23 17 19 17 69 17 19 17 23
prompt% a.out < y
There were 117 numbers read
prompt%
```

Points to note.

- These points are just repeated from the first assignment.

- Make sure your program works, ***on the maths machines,*** or at least that it 'compiles.' It is bad if a program is not working properly, but the ***worst*** thing you can do is to submit a program which does not compile on the maths machines.

  Some maths machines run Linux and some run FreeBSD. To find out which system you are using, type

```
      echo $OSTYPE
```

- In programming, it is very important to follow a specification *exactly,* and for this reason you will always be expected to follow the specification *exactly.* In the above 400-line poem, the spelling, capitalisation, punctuation, and line-breaks must be followed exactly.

- You should use indentation to make the program as easy to read as possible. Statements between curly braces should be indented, and so on.

- For the `submit-work` software: steps in using it are illustrated by a series of screenshots on the course web-page.

- See below how *comments* can be written in a program . . .

```
Appropriate indentation:
#include <stdio.h>   /* at start of line  */

main ()              /* at start of line */
{                    /* brace at start of line */
  printf{"hello\n");
                     /* indent two places, for readability */

  printf("goodbye\n");  /* indent two places, for readability */
}                    /* brace at start of line */
```