# Advent of Code

Day Eight

LucidBrot

August 2020

## 1 About

The task at adventofcode 2019 day 8 is fairly straightforward itself. It can be summarized as

Read the input line of N numeric characters into layers of size width\*height (which are known) to find the layer that contains the lowest number of zeros. Then return the number of '1' digits multiplied by the number of '2' digits within that layer.

However, we're doing this in LATEX, which is typeset in spongebob-case for a reason.

"English words like 'technology' stem from a Greek root beginning with the letters TeX...; and this same Greek word means art as well as technology."

Figure 1: – Donald E. Knuth [15]

# 2 The LATEX Experience

First of all, we're doing something that it was not meant to be used for – so that means we never get the search results we want. Searching about arrays in LaTeXfor example gives you an explanation about how to typeset matrices. Very useful, but not what I wanted. Thankfully, the pgfplots sourceforge page contains a pdf with  $Notes\ On\ Programming\ in\ TeX$ .

Secondly, there don't seem to be any variables. Just counters, counts which are the Texversion. and ifdefs and most importantly macros. But I did not read up on the internals of Texand LaTex, so I have no clue about the exact way that macros are evaluated. Sometimes you can define a command that works perfectly well for a constant argument, but if you dare use it on the result of another command, you're being had from multiple directions. Because that result has not already been evaluated (expanded) and is passed as-is into the other command. My version of pdfLaTex does not feature the primitive \expanded yet. Using \expandafter feels very clunky. Luckily there's a hack around that to be found here. And sometimes the problem was actually the xstring package which also breaks the hack.

The macros of this package are not purely expandable, i.e. they cannot be put in the argument of an \edef. Nestling macros is not possible neither.

For this reason, all the macros returning a result (i.e. all excepted the tests) have an optional argument in last position. The syntax is [ name ], where name is the name of the control sequence that will receive the result of the macro: the assignment is made with an \edef which make the result of the macro name purely expandable. Of course, if an optional argument is present, the macro does not display anything.[1]

After eliminating some problems of this sort by storing the result in a new command by virtue of the optional argument, the same problem still appeared because some commands just don't work due to the same issue, even if they are making use of the optional argument to return that in turn (See Figure 2, Figure 3).

(Btw, I have used \autoref above, for the second figure reference, instead of \ref and that is pretty cool.)

```
\label{eq:def_getchar} $$ \det \{\#1\} \{\#2\} {\mathbb Z} + 0 \right] (\mbox{mychar}) $$
```

Figure 2: This command does not like to be used on a non-constant string.

Finally, the performance of the xstring package is whack. It takes more than two minutes to figure out the length of a 15'000 character string. The bash command wc -c inputfile.txt does that in less than a second.

```
.<del>1</del>.. @@ -143,8 +143,8 @@ \section{Introduction}
143 143 % assign current char
144 144
                    \def\currentchar{\getchar[\fileline]{\digitctr}}
145 145 Char Char Binks: \currentchar\\
\advance \currentlayerzerocount 1
                    Advanced currentlayerzerocount to \the\currentlayerzerocount
@@ -157,9 +157,9 @@ \section{Introduction}
                      \digictr={\the\numexpr \layersize * \currentlayer + \layersize}
                Layer \the\currentlayer has more zeros than the current best layer (\the\bestlayer) so we skip ahead to character at index \digictr to start the next layer.
    159 \fi
- % }{%else
160 + }{%else
                           The current char \currentchar~does not equal 0. It is \meaning\currentchar whereas 0 is \meaning0.
    - % }%fi
162 + }%fi
                  \ifnum \digitctr<\inteval{\layersize * \currentlayer + \layersize}
                  \repeat
                   % if there were very little zeros, we can update the best layer
  ....
```

Figure 3: The difference between wrong code that compiles (red) and seemingly correct code that produces a compiler error (green).

## 3 StrLen

Since xstring's StrLen is so slow, how about creating a faster one? We'll just have to run tex with the --shell-escape flag.[2] ( See Figure 4). Using that allows us to escape to the shell - which is either bash or the windows cmd.exe.



Figure 4: TeXworks settings for shellescape

Somehow, pdflatex threads kept running despite me stopping them in TeXworks or even closing TeXworks. For further debugging, the rest of this section is skipped for now, hence. Currently, the section is being skipped.

But as it turned out, skipping this section about shellex helped nothing at all regarding this issue... It happened with the real input, but not with the \debug input.

### 4 Get Head Performance

Again, xstring is extremely slow with big strings. So I split everything into layers of 100 chars. But that's still noticeably slower at the end of the layer than at the start of the layer... even though it's only supposed to be a quick

character access. So I'm transforming everything into head accesses at index zero.

## 5 Scoping

Nested loops require scoping around the inner loop. Which in turn means we need to use the \global keyword to assign to variables from outside the inner scope. And that in turn makes it really weird to use StrGobbleLeft from the xstring package when I'm trying to remove a character and store the result back in the same string.

The solution is probably a rewrite that uses only one loop plus an if condition that checks the modulus of the loop counter and acts appropriately whenever a layer is finished.

## 6 Execution: Getting our Feet Wet

We had 34 Strawberries for this year's harvest. Probably not enough. So we are sad now and solve https://adventofcode.com/2019/day/8.

h e

1

6

hello world 3 3 300  $\,$ 

Image Width: 25 Image Height: 6

I want to loop 150 times for the first layer.

The input file contains 14999characters.

# 7 Day Eight Part Two: Because this task wasn't that hard

Each image layer consists of numbers that represent pixel information. One digit, one pixel.  $0 \rightleftharpoons \text{black}$ 

 $1 \rightleftharpoons \text{white}$   $2 \rightleftharpoons \text{transparent}$ 

You're given multiple layers. For each pixel coordinate pair (x, y) find the *first* nontransparent value.

Not running part two (first try) as per flags because compilation errors remain. See a later section for my second try.

Let me just perform some magic - Consider Figure 6. There's only one problem with that: It assumes that the input strings are constant. Since I input the value of a counter, mine are not, and the magical string that ends up being collected is just a repetition of the last value it had. Adding \immediate and \edef was not helpful.[7,8]

Now of course, I don't actually need that collection - I can place my computation wherever I like. It would still have been cool though - partly because I have weird spacing when I output my computation character by character, and partly because this is a nice trick to have in my spellbook at the ready. Luckily, the author of that trick replied to my inquiry by adding an \edge and some \expandafter (Figure 5).

```
@lucidbrot

\def\myappendxstring#1{
  \edef\tmp{#1}\expandafter\g@addto@macro%
  \expandafter\mystring\expandafter{\tmp} }

Then,

\stepcounter{mycounter} %
  \myappendxstring{Counter value is \themycounter. }

- Steven B. Segletes
```

Figure 5: S.B. Segletes' addition.

```
% Throughout the document, collect the variable using
\myappendstring{hello}
% display the computed variable here
\makeatletter
\@starttoc{xyz}% executes stuff in .xyz file
\makeatother
\thefinalstring
% the following line must be performed at
% the end of the computation - e.g. at the
% end of the document.
```

\addtocontents{xyz}{\gdef\protect\thefinalstring{\mystring}}

Figure 6: Magic to collect a variable, then print it at the start of the document. [7]

After playing around with creating my own command for accessing my input string quickly by index, I've come upon the problem that while it worked perfectly for printing the results to the PDF, it caused syntax errors when I tried to reuse the results. E.g. in another \edef or \typeout. I ended up asking about this on stackexchange and was explained that because \edef evaluates its contents, if its argument contains another \edef then it will evaluate to itself and the argument of the inner edef will be an undefined command. [14]

"If such claims sound too good to be true, keep in mind that they were made by TEX's designer, on a day when TEX happened to be working, so the statements may be biased; but read on anyway."

Figure 7: Donald Knuth displaying the mentality that TeX may sometimes choose not to work.[15]

### 8 Linux

I've thought I'd continue working on this file in the train, on my laptop. Which uses Ubuntu instead of Windows. A quick

```
sudo apt-get update
sudo apt-get install texlive-full texmaker
```

and a git clone later and I was almost set up.

Seems like my latex distribution or environment on Ubuntu behaves differently though. First of all, I had to remove an exclamation mark from the definition of my mycode environment for some reason. I hope it's still valid on Windows with MikTeX. And I also had to set up the shell-escape again. It seems like I only have the option of always using it or never, as opposed to the dropdown list with custom options I have on windows. Also, I haven't figured out yet if I'm running the correct tools. On Windows, I'm doing a PdfLaTeX + MakeIndex + BibTex. That does not really exist on my Ubuntu, so I'm just doing PdfLaTeX only. I'll have to learn more about this. But it actually seems like just using PdfLaTeX is enough for generating those citation entries.

Also, the error messages are more, and they are more pedantic/verbose. That could be helpful for debugging, but also annoying. Searching for the first of those error messages in google led me to a valuable explanation about extra closing braces. [13]

Argument of \@newctr has an extra \}.<inserted text>\par \repeat

Maybe I should consider all the warnings I'm getting without even running part two first? Maybe also not. They are all just either about design (overfull hbox, fonts) or warn about things that are like I want them to be. E.g. the abbreviation for one of the authors is undefined - but that's totally fine because this is not an abbreviation. It's the authors full name!

# 9 Night Eight Part Two

The same thing attempted again, after having gotten some help by D. Carlisle. [14].

We already have in Figure 8 the accessor macro for the input string that even works in a loop. Now let's go!

Somehow... I managed to write a command that can be typeout without compiler error if and only if the result is written to the pdf first.

The log (Figure 9) indicates that my command \lucidcharat is not doing what it's supposed to be anyway. It contains the line \edge \tmpp#1 which should not evaluate \tmpp to 0.

```
debug for part two:
                          (0)[1],
                                     (1)[2],
                                               (2)[2],
                                                          (3)[2],
          \newcounter{debugctr}
     \setcounter{debugctr}{-1}
          {\loop
                   \stepcounter{debugctr}
                   \edef\tmpinput{\the\numexpr \value{debugctr} - 0}
                   \def\tmpchar{\expandafter\lucidcharat\tmpinput}
                   (\tmpinput)[\tmpchar],
                   %\ensuremath{\mbox{\sc def}\mbox{\sc tmpcharr}\mbox{\sc tmpcharr}}
                   \show\tmpchar
                   \typeout{tmpchar is \tmpchar}
                   \ifnum \value{debugctr}<3</pre>
                   \repeat }
```

Figure 8: Fetching characters in the input string by index.

```
Pre-Loop
Outer Loop at charcounter 1
Inner Loop (layerouncterx = 0) at totalpos 1
tmpchar is the character with meaning macro:->\expandafter
    \lucidcharat \tmpinp
ut
tmpchar has value \edef 0{0} \relax 1
```

Figure 9: Log File

```
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(4498)[2],
                          (4648)[2],
                                                     (4798)[2],
                                                                                (4948)[2],
(5098)[2],
                          (5248)[2],
                                                     (5398)[2],
                                                                                (5548)[2],
(5698)[2],
                                                     (5998)[2]
                                                                                (6148)[2],
                          (5848)[2],
(6298)[0],
                                 (149)[2],
                                                         (299)[2],
                                                                                 (449)[2],
(599)[2],
                          (749)[2],
                                                     (899)[2],
                                                                                (1049)[2],
(1199)[2],
                          (1349)[2],
                                                     (1499)[2]
                                                                                (1649)[2],
(1799)[2],
                          (1949)[2],
                                                     (2099)[2]
                                                                                (2249)[2],
(2399)[2],
                          (2549)[2],
                                                     (2699)[2],
                                                                                (2849)[2],
(2999)[2],
                          (3149)[2],
                                                     (3299)[2],
                                                                                (3449)[2],
(3599)[2],
                        (3749)[0],
                                             0
```

For an explanation of the following magic, see Figure 5 in section 7. It concatenates a string in a loop.

If the magic looks wrong, you might need to run the computation twice. Or just look at day8.xyz 's content.

Reminder that the image has  $25 \times 6$  pixels.

### 10 Todo

Once this is done, I should inform the person who said I should inform them once this is done, to be found at Twitter.

Re-enable \runshellex.

cite sansero

I want to attach the source code to this file.

Fix segletes figure quote.

I also want ot measure how long this takes. See here for example.

### 11 Performance

I have tried to measure the time of my code using the <code>l3benchmark</code> package. But including this package failed because LaTeX thinks my PC has no clock. PDF Elapsed Time in seconds: 112 seconds

The value of \pdfelapsedtime is the number of seconds elapsed multiplied by 65536. [9]

## 12 Source

The source code is clingy: It attached itself to this file. Open it in Adobe Reader and view it under Attachments.

Linking to it does not work unless the file is also a pdf, it seems.

# 13 Fun Facts

Read [16] for a good warning about using percentage signs at the end of **ifnum** statements. The most intriguing part is displayed in Figure 10.

Another interesting thing about Figure 10 is that it displays very badly unless preceded by a \pagebreak, \newline, or \clearpage [17]. I'm curious to see if the addition of this paragraph outlining that changes this fact (due to page break positioning). Indeed it turns out that the figure is now displayed correctly without need for a manual page break. Maybe this is because it is now placed "here" instead of on a new page? Nope! Placing it on its own page is okay, this time. I think I won't ever figure this out.

```
\ifnum1=0%
\ifnum2=2
1%
\else
2%
\fi
a%
\else
b%
\fi

produces a, instead of b, as someone that took a quick glance at the \ifnum1=0 would guess. If, however, you remove the very first %, the output is b.
```

Figure 10: The dangers of comments.

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