

Assignment 1

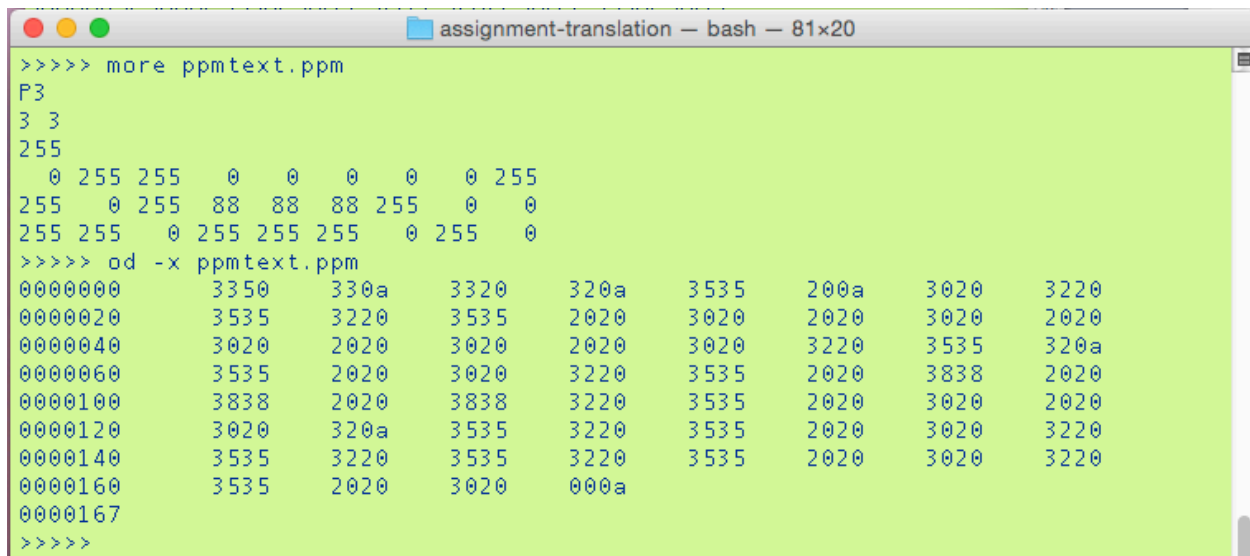
Write a C program to translate a given text-based ppm file (P3) into the corresponding binary-based file (P6). We should be able to open your translated file using image viewer tools that can work with ppm file format.

For simplicity, the following restrictions are added to the file format of the input:

- no comment line after the file type specification
- width (number of columns) and height (number of rows) formatted as ASCII decimal in the second line
- maximal value of color components given in the third line
- values of the color components in ASCII decimal, separated by whitespaces
- a newline character after each row

This is a practice on using System Call I/O. You are not allowed to use standard I/O library functions or other graphics related libraries.

Sample input:



```
assignment-translation — bash — 81x20
>>>> more ppmtext.ppm
P3
3 3
255
 0 255 255  0  0  0  0  0 255
255  0 255 88 88 88 255  0  0
255 255  0 255 255 255  0 255  0
>>>> od -x ppmtext.ppm
00000000  3350  330a  3320  320a  3535  200a  3020  3220
00000020  3535  3220  3535  2020  3020  2020  3020  2020
00000040  3020  2020  3020  2020  3020  3220  3535  320a
00000060  3535  2020  3020  3220  3535  2020  3838  2020
00000100  3838  2020  3838  3220  3535  2020  3020  2020
00000120  3020  320a  3535  3220  3535  2020  3020  3220
00000140  3535  3220  3535  3220  3535  2020  3020  3220
00000160  3535  2020  3020  000a
00000167
>>>>
```

Corresponding output:

```
assignment-translation — bash — 81x20
>>>> od -x ppmbinary.ppm
00000000  3650  330a  3320  320a  3535  000a  ffff  0000
00000020  0000  ff00  00ff  58ff  5858  00ff  ff00  00ff
00000040  ffff  00ff  00ff
00000046
>>>>
```

Image view:

