

BlockApps' Backend Developer Interview Task:

Write a program that can create the photo negative from an image stored in the BMP File Format (https://en.wikipedia.org/wiki/BMP_file_format). The output should also be in BMP format. Write a guide on what the tool is, and how to use it, and submit the code, guide, and any images you tested the program with to BlockApps.

1. The program should be non-destructive (you give it an image, it creates a new one).
2. For the sake of time, you can make some assumptions:
 - a. No compression was used on the image
 - b. Bits per pixel = 24 (or any value you choose... settle on one value and be consistent)

But check for the case where the assumptions aren't true, and stop the program with an appropriate warning message. Also document these limitations in the guide.

3. Handle errors appropriately, give useful error messages, add a simple help info (i.e.- if a command line program, include a "--help" option).
4. Keep it simple! We would rather have an acceptably working solution in a couple of hours than a full featured image processing suite of tools that takes you three weeks to build.

Although we value code reuse, you should not use any preexisting image processing libraries to accomplish this task, since the point is to show us that you can do this yourself.

If you know any functional programming language (like Haskell or Scala), use that language for this task. If not, we will accept code in any other statically typed language.