

Assignment 3 report

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First of all, when I receive the instructions of assignment three, I have no idea how to solve the problem. So, I turn to the practice image bitmap code, which teacher gave us to find the hint for the assignment. At the begin of the program, we create a structure to save the image file messages, such as the size of the image, the size of the image information, width, height, and colors. And we name the structure as "Header." Then, I write a user-defined function called "print_header" to print out the image file information. It's because it will have to print out the image information for three times. In addition, I wrote another user-defined function called "write_image_file" to write a new file. It's because we also have to create images for three times. Then, the following code is the main function. We first declared and initialized some variables that will use in the following code, such as pointer file, Header structures, row size, image data, file name, loop variables. And then, we have to input a image and enter some parameters. Then, use "fread" function to input the colored image file and allocate the memory and close the input file. Copy the fields of the input image header. Create reduced header file. Then, print out. Then, Copy the fields of the input image header. Create merged header file. Then, process the color of the frame part. And then, print out. At the end of the code, release the memory space of the file.