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fixUnderwater.c 11/10/17 Page 1 of 1
 #include <stdio.h>
#include <stdlib.h>
#include "ppmtools.h"
FAHAD AHMED KHAN
214468888
THIS LAB RESTORES THE RED PART OF THE PIXEL BY ASSIGNING IT'S VALUE TO
AVAERAGE OF RED, GREEN AND BLUE PARTS OF THE PIXEL.
#define MAXIMAGE 512*512*3
unsigned char im[MAXIMAGE], out[MAXIMAGE];
int main(int argc, char *argv[])
  int i, j, width, height;
  if(argc != 3) {
    fprintf(stderr, "Usage %s in.ppm out.ppm\n", argv[0]);
    exit(1);
  if(readppm(argv[1], im, &width, &height) < 0) {</pre>
    fprintf(stderr, "%s: read of %s failed\n", argv[0], argv[1]);
    exit(1);
  for(i=0;i<height;i++) {</pre>
    for(j=0;j<width;j++) {</pre>
      unsigned char r, g, b;
      r = im[i*(3*width)+j*3 + 0];
      g = im[i*(3*width)+j*3 + 1];
      b = im[i*(3*width)+j*3 + 2];
      out[i*(3*width)+j*3 + 0] = (r+g+b)/3;
      out[i*(3*width)+j*3 + 1] = g;
      out[i*(3*width)+j*3 + 2] = b;
    }
  if(writeppm(argv[2], out, width, height) < 0) {</pre>
    fprintf(stderr,"%s: write of %s failed\n", argv[0], argv[2]);
    exit(1);
  return 0;
```