

COMPUTER SYSTEMS RESEARCH

Running Version of Your Program, example report form 2007-2008

1. Your name: Jack Breese, Period: 7

2. Date of this version of your program: 11/2/07

3. Project title: Content-Aware Image Resizing

4. Describe specifically what files are needed and the command(s) necessary to run your program

```
How to run your demo:  
Compile pgmio.c  
./a.out [any pgm image file]
```

5. Your program is running, now what? List test input(s) for the user to interact with your program. Specifically what should the user expect to happen?

```
Input(s):  
1) A valid pgm image file passed as an argument.  
2) An invalid image file.
```

```
Program's expected response(s):  
1) Program runs and exits, writing out a specific column of pixels  
to .tempfile.  
2)
```

6. What about user input errors? Are there incorrect user input(s) that your program handles?

```
If the program is given an invalid image file, it will alert the user. If it  
is given a ppm image file instead of a pgm image file, it will alert the user  
to this specific problem.
```

7. What is the programming doing, demonstrating, or analyzing? What is the user looking for in order to understand what you've been studying and developing with this project?

```
The program currently reads in image files, and accesses them row by row or  
column by column. It has methods to perform edge detection, bright pixel  
finding, and extremely basic seam finding.
```

8. How has your program evolved during first quarter to now, the beginning of second quarter?

```
The program has gone from reading in the attributes of a pgm image file,  
displaying them, and exiting, to having implemented methods for a vareity of  
image manipulation functions.
```

9. By the end of this school year, what do you hope to have as a final version of your program in relation to this current version? What will you demonstrate during your final presentation?

```
As a final version, my program will be able to use seam carving to resize
```

images in a content-aware manner. It will be able to perform basic face recognition, or, at the very least, will allow the user to manually tag faces in images, and store this data in an XML file format.