

Create Rubric

60 points

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Q2 Use of command-line arguments in main() function signature

5 points

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1

+5.0

main() function signature includes both of the following:

- int argc
- char *argv[] (or equivalent)



2

+2.5

main() function signature includes one of two of the following:

- int argc
- char *argv[] (or equivalent)



3

+0.0

main() function signature includes none of the following:

- int argc
- char *argv[] (or equivalent)

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Q3 Use of command-line arguments in fopen()

10 points

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1

+10.0

Both calls to fopen() use command-line arguments (argv[1] and/or argv[2]) in place of file names.



2

+5.0

One of two calls to fopen() uses command-line arguments (argv[1] and/or argv[2]) in place of file names.



3

+0.0

Neither call to fopen() uses command-line arguments (argv[1] and/or argv[2]) in place of file names, the command-line arguments used in either call to fopen() are incorrect, or there are no calls to fopen().

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Q4 Checks to make sure file pointers opened successfully

10 points

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1

+10.0

Program includes two checks (one for input file and one for output file) to check that file pointers were opened successfully (not equal to NULL).



2

+5.0

Program includes one check (one for input file or one for output file) to check that file pointers were opened successfully (not equal to NULL).



3

+0.0

Program includes no checks to check that file pointers were opened successfully (not equal to NULL).

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Q5 Modification of functions with addition of file pointer argument

20 points

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1

+22.5

All of the following functions include file pointer

arguments:

- getHeader
- writeHeader
- fillImageArray
- writePixels
- halfSizeWritePixels

This rubric item is extra credit and should only be marked if the student's writePixels function was modified to include a function pointer argument (when not required).



2

+20.0

All of the following functions include file pointer arguments:

- getHeader
- writeHeader
- fillImageArray
- halfSizeWritePixels



3

+15.0

Three of four of the following functions include file pointer arguments:

- getHeader
- writeHeader
- fillImageArray
- halfSizeWritePixels



4

+10.0

Two of four of the following functions include file pointer arguments:

- getHeader
- writeHeader
- fillImageArray
- halfSizeWritePixels



5

+5.0

One of four of the following functions includes file pointer arguments:

- getHeader
- writeHeader
- fillImageArray
- halfSizeWritePixels



6

+0.0

None of the following functions include file pointer arguments:

- getHeader
- writeHeader
- fillImageArray
- halfSizeWritePixels

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Q6 Makefile includes command-line arguments in "run" target

10 points

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1 **+10.0**

Makefile "run" target matches the following:

- "[executable] Disney.pnm smallerDisney.pnm"

2 **+5.0**

Makefile "run" target includes two command-line arguments, but does not match the following:

- "[executable] Disney.pnm smallerDisney.pnm"

3 **+2.5**

Makefile "run" target includes one command-line argument.

4 **+0.0**

Makefile "run" target does not include command-line arguments.

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Q7 Header Comments

5 points

Q7.1 Name

1 point

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1

+1.0

All submitted files have a header comment with the student's name.



2

+0.5

Some submitted files have a header comment with the student's name, but not all.



3

+0.0

No submitted files have a header comment with the student's name.

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Q7.2 Date

1 point

[Rubric Settings](#)



1

+1.0

All submitted files have a header comment with the date of submission.



2

+0.5

Some submitted files have a header comment with the date of submission, but not all.



3

+0.0

No submitted files have a header comment with the date of submission.

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Q7.3 Lab Section

1 point

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1

+1.0



All submitted files have a header comment with the student's specific lab section (ex: 007).



Some submitted files have a header comment with the student's specific lab section (ex: 007), but not all.



No submitted files have a header comment with the student's specific lab section (ex: 007).



Q7.4 Lab Number

1 point

 [Rubric Settings](#)



All submitted files have a header comment with the lab number (ex: Lab 1).



Some submitted files have a header comment with the

lab number (ex: Lab 1), but not all.



3

+0.0

No submitted files have a header comment with the lab number (ex: Lab 1).

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Q7.5 Program Description

1 point

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1

+1.0

All submitted files have a header comment with a short program description.



2

+0.5

Some submitted files have a header comment with a short program description, but not all.



3

+0.0

No submitted files have a header comment with a short program description.

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Q8 Code Formatting

0 points

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1

-0.0

Code is formatted in a readable way, with reasonable indentation. Code otherwise follows standard conventions as taught in lecture.



2

-1.0

Minor issues with code formatting that slightly impact readability. Grading TA(s) will provide more information in comments.



3

-3.0

Frequent issues with code formatting that significantly impact readability. Grading TA(s) will provide more information in comments.



4

-5.0

Code is not formatted in any recognizable way, making code entirely unreadable.

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Q9 Absence Penalty

0 points

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1

-0.0

Student was present in lab when required.



2

-0.0

Student was not present in lab when required, but provided a reasonable excuse ahead of time.



3

-47.5

Student was not present in lab when required, and did not provide a reasonable excuse ahead of time.
Responsible TA(s) will provide more information in comments.

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