

Program #4 Grading Criteria - 100 pts total

Feel free to award partial credit in each category based on “how well” the program satisfies the criteria presented.

General Code Points (10 pts)

Uses standard I/O – 3 pts

Reads in all input into appropriate data structures – 2 pts

Sort is called from main or "solve" function – 3 pts

Output is generated in main or "solve" function that matches output type – 2 pts

Use of MergeSort or QuickSort Algorithm (10 pts)

Function called merge/partition roughly tries to do this task – 5 pts

Function called Merge Sort or Quick Sort analytically does the correct task – 5 pts

Functional Breakdown (20 pts)

Main is reasonably short just does IO and setup – 4 pts

There is either a merge or partition function that is separate – 4 pts

There is a SHORT Merge Sort or Quick Sort function which calls merge/partition – 4 pts

There is a compare function that works like traditional compare functions – 4 pts

The rest of the functional breakdown is reasonable – 4 pts

Style Points (10 pts)

Header comment w/name, program, date – 2 pts

Appropriate variable names – 2 pts

Has reasonable constants (#define or const) – 2 pts

Appropriate white space and indenting – 2 pts

Internal comments in code – 2 pts

Execution Points (50 pts)

2 pts for max angle printed for each case

3 pts for min # of people in light for each case

No partial credit.