**Algorithm Analysis Grading Rubric (Part 1)**

| Category | Missing (0 points) | Poor (1 point) | Fair (3 points) | Good (4 points) | Excellent (5 points) |
|---|---|---|---|---|---|
| References | No references | 1 reference | 3 references | 4 references | 5 references |
| Citations | No citations | Citation does not provide enough detail to find anything related to the reference | Citation provides enough detail to find the publication source, but not the reference itself | Citation provides most of the detail required to find the reference | Citation provides all details required to find the reference |
| Description | No description | Description of Kruskal's algorithm is unintelligible. | Description of Kruskal's algorithm is neither correct nor clear. | Description of Kruskal's algorithm is correct or clear but not both. | Description of Kruskal's algorithm is correct and clear. |
| Reliability | Missing | References include at least one references that is reliable at the "3" level. | References include at least two references that are reliable at the "3" level. | References include at least one reference that is reliable at the "4" or "5" level. | References include at least two references that are reliable at the "4" or "5" level. |
| Reference 1 | Missing | Reliability is within 4 points of the instructor's assessment. | Reliability is within 3 points of the instructor's assessment. | Reliability is within 2 points of the instructor's assessment. | Reliability is within 1 point of the instructor's assessment. |
| Reference 2 | | | | | |
| Reference 3 | | | | | |
| Reference 4 | | | | | |
| Reference 5 | | | | | |
| Accuracy | Missing | References include at least one references that is accessible at the "3" level. | References include at least two references that are accessible at the "3" level. | References include at least one reference that is accessible at the "4" or "5" level. | References include at least two references that are accessible at the "4" or "5" level. |
| Reference 1 | Missing | Accuracy is within 4 points of the instructor's assessment. | Accuracy is within 3 points of the instructor's assessment. | Accuracy is within 2 points of the instructor's assessment. | Accuracy is within 1 point of the instructor's assessment. |
| Reference 2 | | | | | |
| Reference 3 | | | | | |
| Reference 4 | | | | | |
| Reference 5 | | | | | |

**Algorithm Analysis Grading Rubric (Parts 1 and 2)**

There are 32 blanks in the table below. Each is worth 4 points. Make sure your submission has all 32 parts.

| Category | Two arbitrary vertices | Single Source | All Pairs | Minimal Spanning Tree |
|---|---|---|---|---|
| Runtime upper bound | | | | |
| Justification | | | | |
| Runtime lower bound | | | | |
| Justification | | | | |
| Space lower bound | | | | |
| Justification | | | | |
| Space upper bound | | | | |
| Justification | | | | |