|  |  |  |
| --- | --- | --- |
| Function | Time Analysis | Space Analysis |
| mstEdge(int, int, int) | O(1) | O(1) |
| bool operator < (const mstEdge& ) | O(1) | O(1) |
| void createGraph(int, int) | O(n2mlog\*n) | O(lg\*n) |
| void unionSet(vector<makeSubSet>&, int, int) | O(lg\* n) | O(lg\* n) |
| int findSet(vector<makeSubSet>&, int) | O(lg\* n) | O(lg\* n) |
| void kruskMST(int, int) | O(n2mlog\*n) | O( lg\* n) |
| void initializeSubSet(int) | O(n) | O(1) |
| void findMinMax(int&, int&, int) | O(1) | O(1) |
| int findMinWeight(int, int, int&) | O(1) | O(1) |
| bool isComplete(vector<makeSubSet>, int) | O(s) | O(1) |
| bool eofDataSet(int, int) | O(1) | O(1) |
| void printMinWeight() | O(w) | O(1) |
| int main() | O( n2mlog\*n ) | O( lg\*n ) |

Name: Eranus Thompson

numVer = n ; numEdge = m; subSets = s; strMinWeight = w