Xuan (James) Zhai - CS5350 – Final Project Part B Report

#: Since this part requires the use of pointers, so I chose to use C++ for implementation, and generate this report in Words and Excel spreadsheet.

#: For checking the source code of this final project, visit: <https://github.com/XuanZhai/Xuan-James-Zhai-CS5350/tree/main/FinalProject>

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**1: Introduction**

In this part B, I am going to implement multiple algorithms for coloring and identify their time complexities. The six algorithms (4 + 2 bonus) that I choose are Smallest Last Vertex Ordering (**SLVO**), Smallest Original Degree Last Vertex Ordering (**SOLVO**), Largest Original Degree Last Vertex Ordering (**LOLVO**), Uniform Random Ordering (**URO**), Breath-First-Search Ordering (**BFSO**), and Depth-First-Search Ordering (**DFSO**). To test the algorithms, I am going to ten groups of datasets with different sizes (100, 200, 300 … 1000). In each group, it will have a complete graph, a cycle graph, three random graphs with uniform randomness distribution, three random graphs with skewed randomness distribution, and three graphs with Gaussian randomness distribution. For all the random graphs, their number of edges will be ten times of their number of vertices. In the analysis, I will run each algorithm and each graph ten times and find the average time in microseconds, and I will put all the data I collected in tables for further analysis. Eventually, I will find the time complexity for each algorithm and identify its performance in different cases.

**2: Code (UML Diagram)**

![图示

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFh1YW4gWmhhaQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNzEAAJKSAAIAAAADNzEAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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bstg4Y/w5z2qsnjVYtOjmaxu7qOHT7e9urgeWuyOQE527uT8rEgf4Z1LLwzZ2EscsUs7yJDNEzuwJkMriR3bj7xYZ4wOenTEK+ELBdLubATXPlXOnxae53LuEcasqkfL97DnJ6dOKLVAvS7f1f8AyGweLI5720T7Bcpa3s0sVvdsU2N5auxJGdwB8s4459qp23ip4rG21C/850uNMm1IQRRrxHuQoueu4K4Hp1JxgVFY+GtQXxBZvMGi0+xuLiZIjcK8Z8xXUBFCBh98k7idvReDV/T/AAx5en20NzcXEM1nZyafDLby7T5O5Sr5xkPiNPbOeDSXO/69Bv2S/r1/4Bm6r4tkmsNMntbk6bDcagbeW5Ty7lWTyHkBQruBG5VHr1p9h4qvocxSW1zq4nu/s9hMkIt2nAi8xiQ5UYXaw3DAOK07TwjZ2t5Hdtc3E1yl39rMjCNN7+U0XKooGNrnoAc4ye1al1p0V3e2V1Izh7KRpIwpGCWRkOePRj6c0KM92xOdNaJf1+ZhQ+LH8uKKCxutQuJBdSfL5ce1IZvLOcsB3AHc9+9WPDHiGXxBNqUn2cx2kM0QtXOMujwRyDIyefnz9CB1BqxZ+G7OxuEmiknLJHcRgMwxiaUSt27MMD29etLoXh238PrKlncXDxSJEpjlKkAxxLEGBCg5KouecccAVSU7q4pOnZ2Wv/B/yL3nym0nkeBoGjLhQxU7gM4bgng9cHn1rl9N8bONI0v+1dOulvb+0ikt1Gz/AEpzsVsYbC8up+bHynPYgdSlsVgliknlmEjOdz7cqGJ+UYA4GcDPPqTWBF4HtEt7aOTUdQmaxiWKylkePdahSpyuEAJJRc7g2QMdM5Jc/wBkUHT15iceKlZharp9wdS+0G3NnuQFWCCQtuzt27SDnPcDGeKpyeMoY7pbqbzILGKwupbmF1HmJLFKkZXg4zksODg8HNXh4UhXEy394NQ+0G4N9mPzCxQRkEbdm3YAMbewPXmm/wDCG6abcwyvcShreaCRncbpPNkEjuSAPm3LkEYA9OmF+8KTpf1/X3FWLx3aTRzLFb7p4Sm9VuoTGiuGIZpA+0D5CMZznHGCDT4vGsd5b2cmm6bc3j3UE04SN4xsWJwj/MWwfmPGCc/SpJPB8c00NxPq2oS3MMgeOVxCQmFZcBPL2dGPO3Occ4GKsab4Xs9MaFoZ7mRoop4gZXUkiaUSMTgDncOPbrnrQvadQbo20MHX/F9wLrR/7Fn2xX0CTAtGpCGRk8rzifuIwL9DuJGBXRf2t/xPrGKKaOey1G2d4HjII3Jg5BHUMr5/4B71nzeBbCWyWzW7vI7VrSKzuYlZMXMcYwu4lSQcEjK7Tz9MWrPQmtNS04eY8lppdo0MDSMC7sxA5wB91UA99x9KSU76hJ0uWy8/6+8145ZHmmR4GjSNgEcsCJBgHIAORgkjnHT0rDl8ZWMFqk0sM4O24aWJQC0XktsYEZ6lyqj13DtW5HC0c0ztPJIJGBVGxtjwAMLgZwcZ5J5J+lZUnhPTZbnVZpBKTqqKkw34CYGMp/dJOCT6gGtJc32TOPJf3ipe+K1tY3S/t7jTZ4JrYyI2yTMUsm0MCCRjhge4xx2yumeIbvU/ElpA1lNZ2dxp0l0gm2EyfPGFPyk4OGOQfUVLJ4RtboSnUry7vpZXgLyzFASsT70TCqBtyTnjJyeemJdL8NRaZfw3X2+9ujb2xtIUnZCscZKnHCgk/IBkkn1zUWnc0vS5dNzaooorY5gooooAKKKKACkf7jfSlpH+430oGdV8Nf8AklXhX/sD2n/ola6auZ+Gv/JKvCv/AGB7T/0StdNXzJ9oFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBm69oya7p0VpJM0IjvLa63KM5MM6SgfiUx+NaVYni1dRbRYBo/n/aP7SsS/kEhvKF1F5ucfw+Xvz7ZrboAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmyf6tvoadTZP8AVt9DQB4t4J/5EHQP+wbb/wDota3Kw/BP/Ig6B/2Dbf8A9FrW5X0cPhR8dU+N+oUUUVZmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABSP9xvpS0j/AHG+lAzqvhr/AMkq8K/9ge0/9ErXTVwvgvwxoOvfDDwhNrmiabqUsOi2qxveWkczIPKU4BYHFddqekabrdn9k1nT7XULbcG8m7gWVMjodrAjNfMn2hcoqlpWi6XoVo1romm2em27OZDDZwLEhYgAthQBnAHPsKp2Xg7wzpupDUdO8O6TaXyliLqCxiSUFgQx3hc8gnPrmgDZorK1bwt4f1+aObXdC03U5Y12o95ZxzMg64BYHAq1LpOnT6T/AGVPp9rLp3liL7G8KmHYMYXYRjAwMDGOKALdFZukeHdE8PiUaDo+n6YJ8eaLK1SHzMZxu2gZxk9fU1A3g7wy+r/2q/h3SW1HzRN9sNjEZvMByH37d27PfOaANmis/VvD+ja/HHHruk2OppES0a3lskwQnqQGBxUtrpOnWOljTLLT7W2sArILSGFUiCtksNgGMHJyMc5NAFuisnSfCnh3Qbl7nQ9A0vTZ3Ty2ls7OOFmXIO0lQCRkA49hTNR8HeGdYvje6v4d0m/uiADPdWMUshA6Dcyk8UAbNFU9T0jTdbs/sms6fa6hbbg3k3cCypkdDtYEZpNK0XS9CtGtdE02z023ZzIYbOBYkLEAFsKAM4A59hQBdorGsvB3hnTdSGo6d4d0m0vlLEXUFjEkoLAhjvC55BOfXNSat4W8P6/NHNruhabqcsa7Ue8s45mQdcAsDgUAatFVJdJ06fSf7Kn0+1l07yxF9jeFTDsGMLsIxgYGBjHFQaR4d0Tw+JRoOj6fpgnx5osrVIfMxnG7aBnGT19TQBpUVjN4O8Mvq/8Aar+HdJbUfNE32w2MRm8wHIfft3bs985qzq3h/Rtfjjj13SbHU0iJaNby2SYIT1IDA4oA0KKqWuk6dY6WNMstPtbawCsgtIYVSIK2Sw2AYwcnIxzk1U0nwp4d0G5e50PQNL02d08tpbOzjhZlyDtJUAkZAOPYUAa1FY2o+DvDOsXxvdX8O6Tf3RABnurGKWQgdBuZSeKu6npGm63Z/ZNZ0+11C23BvJu4FlTI6HawIzQBcoqlpWi6XoVo1romm2em27OZDDZwLEhYgAthQBnAHPsKp2Xg7wzpupDUdO8O6TaXyliLqCxiSUFgQx3hc8gnPrmgDZorK1bwt4f1+aObXdC03U5Y12o95ZxzMg64BYHAq1LpOnT6T/ZU+n2suneWIvsbwqYdgxhdhGMDAwMY4oAt0Vm6R4d0Tw+JRoOj6fpgnx5osrVIfMxnG7aBnGT19TUDeDvDL6v/AGq/h3SW1HzRN9sNjEZvMByH37d27PfOaANmis/VvD+ja/HHHruk2OppES0a3lskwQnqQGBxUtrpOnWOljTLLT7W2sArILSGFUiCtksNgGMHJyMc5NAFuisnSfCnh3Qbl7nQ9A0vTZ3Ty2ls7OOFmXIO0lQCRkA49hTNR8HeGdYvje6v4d0m/uiADPdWMUshA6Dcyk8UAbNFU9T0jTdbs/sms6fa6hbbg3k3cCypkdDtYEZpNK0XS9CtGtdE02z023ZzIYbOBYkLEAFsKAM4A59hQBD4g1kaFpsV2YDP5l5a2u0Ntx506Q7s4PTzM474xxWnWJbeCvCtlqC39n4Z0e3vFfetxFYRLIG9QwXOfetugAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKbJ/q2+hp1Nk/1bfQ0AeLeCf+RB0D/sG2/wD6LWtysPwT/wAiDoH/AGDbf/0WtblfRw+FHx1T436hRRRVmYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFI/3G+lLSP9xvpQM6r4a/8kq8K/8AYHtP/RK101cz8Nf+SVeFf+wPaf8Aola6avmT7QKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmyf6tvoadTZP9W30NAHi3gn/AJEHQP8AsG2//ota3Kw/BP8AyIOgf9g23/8ARa1uV9HD4UfHVPjfqFFFFWZhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUj/AHG+lLSP9xvpQM6r4a/8kq8K/wDYHtP/AEStdNXM/DX/AJJV4V/7A9p/6JWumr5k+0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigA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Figure 1: UML Diagram for the program.

**3: Smallest Last Vertex Ordering (SLVO)**

**3.1: Code**

For this program, I use three data structures: an adjacency linked list (an array of adj nodes), a degree table (an array of doubly linked lists), and a stack.

When it reads an input file, its time complexity is Θ(V+E). It will first read the number of vertices and allocate memories for the data structures. Then, it will read the pointers for each course and identify the degrees for each vertex. It will then loop different times and add edges to the adjacency linked list. After it read the whole file, it will loop through the adjacency linked list and add the nodes in the degree table and assign pointer to them. Therefore, the time complexity for reading a file is Θ(2V+E) or Θ(V+E).

When it does the coloring, it will first delete all the nodes and fill the stack. The algorithm will loop through all the nodes in the degree table; it will pick up the smallest and delete that vertex, moving all its neighbors with one layer up. When one vertex is deleted, the algorithm will also update the adjacent list and print the info. Finally, it will add that vertex to the stack. Finding the color is also Θ(V+E) because for each node on the degree table, deleting it and moving each of its neighbors one level up are all constant time, and moving all the neighbors is Θ(E), or maybe Θ(2E).

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Figure 2: Source Code for Finding Orders.

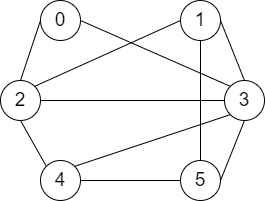
With a filled stack, it will find the color for vertices based on the popped order. For a vertex it popped, it will create a color table; then it will loop through its neighbor and see which colors are used around. Besides, it will go from 0 to the number of original degrees and find the smallest color it can have. Finding a color for one vertex requires looping through all its neighbors two times, so finding all the colors will still be a constant time, or Θ(V+E). Note: This time complexity may be Θ(V+2E) since it will loop number of original degrees times instead of number of degrees when deleted times, and it may lead to one more duplicate. But since all my algorithms require that function, so I want to keep the time complexity for that part be the same.

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Figure 3: Source code for coloring a vertex

**3.2: Sample Input & Output**

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Figure 4: Sample Input (Will be used for all the algorithms)

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Figure 5: Sample Output with SLVO

**3.3 Analysis**

Although SLVO requires an order before coloring, since both finding the order and finding the color are in linear time, the time complexity for that algorithm is still in linear time, or Θ(V+E). For the sample above, at step one the smallest vertex is 0. After removing 0, there will be four vertices has a degree of 3. Therefore, the program chose 1. After that, the smallest is 0 or 2, so the program chose 5 and 2. Finally, it will remove 3, and the order will be 0, 1, 2, 5, 4, 3; The terminal clique will be 3 which is a triangle formed by vertex 3, 4, 5. When we find the coloring, we just flipped the order, and do the coloring followed by that order.

**4: Smallest Original Degree Last Vertex Ordering (SOLVO)**

**4.1: Code**

This algorithm also has an adjacency linked list and a degree table, and the read file function will construct those two data structures with vertices and edges. However, this algorithm will not find a specific order. But instead, it will loop through all the nodes on the degree table, from the one with the greatest number of degrees to the one with the least number of degrees and do coloring. So, on the degree table the iterator will go from level maxdegree to 0.

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Figure 6: Source Code for Coloring (SOLVO)

**4.2: Sample Output**

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Figure 7: Sample Output (SOLVO)

**4.3: Analysis**

Although this algorithm does not find a specific order, it still needs to go over all the nodes on the degree table and coloring them. But it is still a constant time which is Θ(V+E). However, it is not showing on the sample output, but this algorithm does not guarantee to find the smallest number of colors it needs for coloring that graph.

**5: Largest Original Degree Last Vertex Ordering (LOLVO)**

**5.1: Code**

This algorithm is similar to SOLVO, and the only difference is instead of coloring the vertices from the one with the greatest number of degrees to the one with the smallest, we do it vice versa.

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Figure 8: Source Code for Coloring (LOLVO)

**5.2: Sample Output**

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Figure 9: Sample Output (LOLVO)

**5.3: Analysis**

This algorithm is similar to SOLVO. So, it is in constant time. But since it starts with the one with the smallest number of original degrees, its performance in finding the minimum number of colors used may be worse in some cases compared to SOLVO. Here is an example. For an input like:

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Figure 10: Input for Special Case (LOLVO & SOLVO)

The result from SOLVO is:

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Figure 11: Output for Special Case (SOLVO)

But the result from LOLVO is what is below, which needs one more color.

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Figure 12: Output for Special Case (LOLVO)

**6: Uniform Random Ordering (URO)**

**6.1: Code**

This algorithm needs two data structures which is the adjacency linked list and a list which tracking the unselected vertices. When it built the two lists after reading the file, while the list for unselected vertices is not empty, the algorithm will randomly pick (uniform distribution) a vertex and color it, and it will delete that node from the list which means that vertex is colored.

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Figure 13: Source Code for Coloring (URO)

**6.2: Sample Output**

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Figure 14: Sample Output (URO)

**6.3: Analysis**

For each round, this algorithm will randomly pick a vertex, and delete it from the time; it is Θ (1) because randomly pick a vertex is constant, and when it wants to delete a vertex, it will first switch that node with the last one, and then pop the last one, so it is also a constant time complexity. Therefore, this algorithm has a time complexity which is also Θ (V+E). Nevertheless, since it just does the random picking, it does not guarantee to find the minimum number of colors.

**7: Breath-First-Search Ordering (BFSO)**

**7.1: Code**

This algorithm will use a Breath-first-search algorithm, but instead of doing a searching, it will just loop through all the vertices. It will first have a “visited” array to avoid a cycle and a queue. This algorithm will start with the vertex “0” and each round it will push all the current node’s neighbors to the queue. When the queue is empty, it does not mean it went through all the vertices because sometime a vertex may not have any adjacent vertices. For example, if vertex 0 does not have any edge connected, it will just color vertex 0. Therefore, it needs an iterator in the “visited” array to track the unvisited node. If the queue is empty, we will push the smallest unvisited node to the queue and update the iterator. The code will stop only if all the nodes are visited.

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Figure 15: Source Code for Coloring (BFSO)

**7.2: Sample Output**

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Figure 16: Sample Output (BFSO)

**7.3: Analysis**

Unlike URO or other similar algorithm, BFSO loop through the whole graph, a BFS algorithm in its worst case, is Θ(V+E). Therefore, BFSO algorithm may have a time complexity which is O(V+2E) or O(V+3E), but it is still a linear time. This algorithm also does not guarantee to find the minimum number of colors used since it starts at 0 and always go to a vertex’s neighbors first. If the first several vertices it is coloring is the one with small original degree, it will be like SOLVO and cannot find the minimum number of colors.

**8: Depth-First-Search Ordering (DFSO)**

**8.1: Code**

The only difference between this algorithm and the BFSO is it uses a Depth-first-search algorithm. Thus, instead of using a queue, it will use a stack. Other than that, both algorithms are the same.

**8.2: Sample Output**

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Figure 17: Sample Output (DFSO)

**8.3: Analysis**

This algorithm also has a linear time complexity and does not guarantee to find the minimum number of colors. Its difference between BFSO is only shown in different graphs. For example, if it starts with vertices that has neighbors with large degrees, BFSO may be a better choice, while in other cases DFSO may be better.

**9: Comparison and Check the Time Complexity**

**9.1: Code**

For one dataset, the program will run all six algorithms 10 times and find the average time in microseconds. The function has one parameter which is the input file name, and it should be an absolute path. Since this program uses design patterns, it can just create an array of algorithms and run all of them in a for loop. The time measurement algorithm I used is the high\_resolution\_clock from the chrono library in C++.

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Figure 18: Source Code for Finding Time

**9.2: Running Times (All running times will be in microseconds)**

**9.2.1: SLVO**

When collected all the running time, we can find out for SLVO algorithm.

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Figure 19: SLVO Running Time (Table)

When we put them into a graph, we will see:

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Figure 20: SLVO Running Time (Graph)

When it is a complete graph, E will be . Therefore, Θ (V+E) will be close to Θ (V^2). From the table and graph above we can see that, if we double the size of dataset, the running time becomes 4 times than before, so it proves our assumption that this SLVO algorithm is Θ (V+E).

**9.2.2: URO**

Here is the table and graph for URO algorithm:

表格

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Figure 21: URO Running Time (Table)

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Figure 22: URO Running Time (Graph)

Again, when we look at the running time for the complete graph, we will find out it is still Θ (V^2). When we just look at the time for a cycle graph, we will see it is a linear time. Therefore, it is Θ (V+E).

图表, 折线图

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Figure 23: URO Running Time (Cycle’s graph)

**9.2.3: SOLVO**

When we check the result from SOLVO algorithm, and later the LOLVO algorithm, we can find out although it’s also Θ (V+E), its running time is little bit faster than the URO algorithm. That may cause by the random number generation and selection process, while for SOLVO and LOLVO it just loops through the degree table.

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Figure 24: SOLVO Running Time (Table)

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Figure 25: SOLVO Running Time (Graph)

**9.2.4: LOLVO**

Here is the result from LOLVO algorithm. Since it loops through the degree table in a reverse order, the running time should be close to the one from SOLVO algorithm, and the time complexity should be the same. One interesting thing is from 800 vertices to 900 vertices, the running time for complete graph decreased.

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Figure 26: LOLVO Running Time (Table)

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Figure 27: LOLVO Running Time (Graph)

**9.2.5: BFSO**

Here are the results from BFSO algorithm. We can see that its running time is between SVLO and the three algorithms above, but it is still a linear time. This may be O (V+3E), but still also Θ (V+E). However, for random graphs, sometime BFSO (and DFSO) has really a bad running time. Check RandomS3 when the number of vertices is 800 below, although it also happened in other algorithm's result, I think that is because it is a special skewed random graph which smaller vertices are all connected, and it takes time to loop through the array to find visited vertices.

表格

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Figure 28: BFSO Running Time (Table)

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Figure 29: BFSO Running Time (Graph)

**9.2.6: DFSO**

Here are the results from the DFSO algorithm. Since in this algorithm we changed the BFSO algorithm from a queue to a stack. The overall running time should be close, and the time complexity should also be a linear Θ(V+E).

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Figure 30: DFSO Running Time (Table)

图表, 折线图

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Figure 31: DFSO Running Time (Graph)

**10: Algorithm’s Comparison**

**10.1: Complete Graph**

For a Complete Graph, when we put all the algorithms’ running time together, we’ll find out that SLVO is the slowest, since it needs to find an order before doing the coloring. After it, BFSO and DFSO are relatively slow because they need to get an order based on a Breath-first search or a Depth-first search. SOLVO and LOLVO are the fastest because it knew the order (on the degree table) when it read in the file. URO is at the middle since it needs to do a random selection to get an order, but still, it is fast and close to SOLVO and LOLVO.

图表, 折线图

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Figure 32: Running Time for a Complete Graph

**10.2: Cycle Graph**

When it is a cycle graph, the comparison result is showing below. Although the SLVO algorithm is still the slowest, but it is close to the rest. That is because for a cycle, since all vertices’ degrees are one. Finding an order will just modify the first layer on the degree table, so it may be faster. For the rest of the algorithms, we can see the order is similar to the one in Complete Graph’s comparison.

图表, 折线图

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Figure 33: Running Time for a Cycle Graph

**10.3: Random Graph**

For the random graph, since they will also follow the order we found in complete graph and cycle graph, this part we will instead find the performance difference for each algorithm in different types of randomness distribution.

**10.3.1: SLVO with Three Types of Distribution**

From the result below we can see that the running time for different types of random graph are close; the Random Graph with Skewed Distribution may have a little bit bigger running time. It makes sense since for SLVO algorithm, both finding an order and coloring them do not have a connection with the vertex. The Random Graph with Skewed Distribution may take a longer running time because the average number of degrees for lower vertices is slightly bigger than the one for bigger vertices. (Check PartA 7.2) But since that difference is smaller, its effect on the running time is also small.

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Figure 34: Running Time for Random Graph (SLVO)

**10.3.2: URO with Three Types of Distribution**

In the case of URO, the difference in running time is so small that which could be ignored. That’s because the URO algorithm does not care about vertex; all it does it randomly pick a vertex and color it.

图表, 折线图

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Figure 35: Running Time for Random Graph (SLVO)

**10.3.3: SOLVO&LOLVO with Three Types of Distribution**

Both results from SOLVO and LOLVO are like SLVO, because they all use a Degree Table. For Random Graph with Skewed Distribution, Smaller Vertex may have a higher number of degrees, and finding color for that vertex may takes more time, so that is why the Random Graph with Skewed distribution may take a bit more time than the other two.

图表, 折线图

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Figure 36: Running Time for Random Graph (SOLVO)

图表, 折线图

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Figure 37: Running Time for Random Graph (LOLVO)

**10.3.4: BFSO&DFSO with Three Types of Distribution**

The result from BFSO and DFSO algorithms are different. That is because for both algorithms, they will start at 0, and when every time the queue/stack, it will push the smallest uncolored vertex to the container. As a result, if the smaller vertex has more degrees, both visiting and coloring will take more time. That result is reflected in the graphs below. The running time for those two algorithms is not consistent even the number of vertices and edges are the same. Sometimes it takes a huge more time if the small vertices has more degrees (like 800-S3 in BFSO and 700-S1 in DFSO), while sometimes takes smaller time if vice versa (like 500-U2 in BFSO).

图表, 折线图

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Figure 38: Running Time for Random Graph (BFSO)

图表, 折线图

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Figure 39: Running Time for Random Graph (BFSO)

**11: Number of colors analysis**

In this section, I modify the source code for each algorithm so that it will print the number of colors it used out. After that, I will collect all the data into a table and identify their accuracy. Here I just use 100 vertices.

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Figure 40: Number of colors used for a graph with 100 vertices

图表

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Figure 41: Accuracy of algorithm to a graph with 100 vertices

When I modify the table to the Figure 41, it is clearer to find out that other than SLVO who guarantee to find the minimum number of colors used. SOLVO is the best. It reaches an accuracy which is around 81%. URO, BFSO, and DFSO are close in accuracy, which are all around 36%-63%. LOLVO is the worst one with an accuracy only 18%. It makes sense based and proved my analysis at section 5.3. Among different types of graphs, all algorithms find the minimum number of colors used for Complete and Cycle graph. Random Graph with skewed distribution has the worst result overall, which due to the number of degrees for small vertices.

**12: Conclusion**

From the analysis all above, we know that all the algorithms selected are linear Θ(V+E). **Smallest Last Vertex Ordering (SLVO)** has the largest running time; its time complexity is about Θ(2V+3E). That is because this algorithm needs to find the order first before doing the coloring. Finding the order is Θ(V+E) and finding the coloring is Θ(V+2E). Nevertheless, this algorithm will guarantee to find the minimum number of colors. **Smallest Original Degree Last Vertex Ordering (SOLVO)** is also a great algorithm; it has a good accuracy compared to the rest. Moreover, SOLVO and **Largest Original Degree Last Vertex Ordering (LOLVO)** are the two fastest algorithms between the six, which is Θ(V+2E) or Θ(V+E). However, SOLVO and LOLVO do not guarantee to find the minimum number of colors, and LOLVO has a terrible accuracy in finding that. Uniform Random Ordering (URO) is a coloring algorithm which will randomly choose a vertex and color it. Its running time is close to SOLVO and LOLVO, it may be slightly larger because it takes time to generate a random number and identify the unselected vertices, but that difference is tiny. **Breath-First-Search Ordering (BFSO)** and **Depth-First-Search Ordering (DFSO)** are algorithms that will use a search algorithm for looping through the graph. They also have a linear time complexity Θ(V+E), but they are slower than SOLVO, LOLVO, and URO because both BFS and DFS take O(V+E) time to visit all the nodes, while the other three are O(V). However, for random graphs, especially the ones that generated with skewed distribution, BFSO and DFSO’s running time are not consistent compared to the others, sometimes their running time maybe higher/lower than expected, depending on the numbers of degrees for small vertices.

Between the three types of random generator, the one with Skewed distribution often takes more running time for coloring, and that may be because average number of degrees, especially for small vertices, are larger than the other two. But overall, their differences are small.