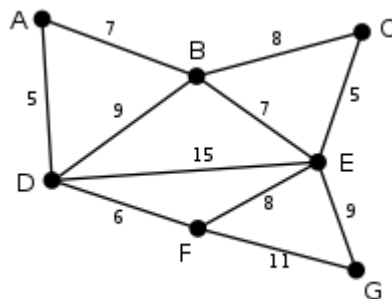


Exercise 4. Answer Sheet

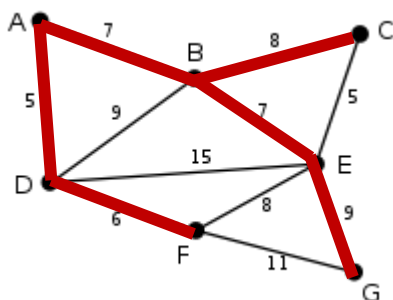
Student's Name: Haruki Terushima

Student's ID: s1290037

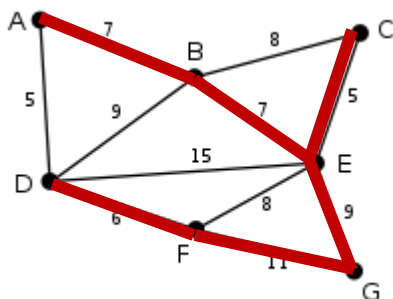
Problem 1. (50 points) Consider the following graph and assume node A as a root.



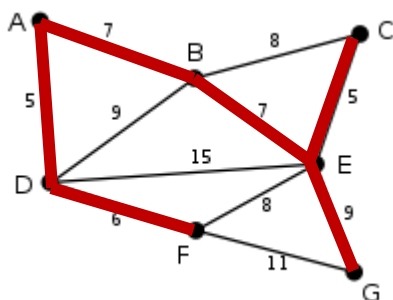
a) Draw a spanning tree obtained by using the Breadth First Search (BFS) algorithm.



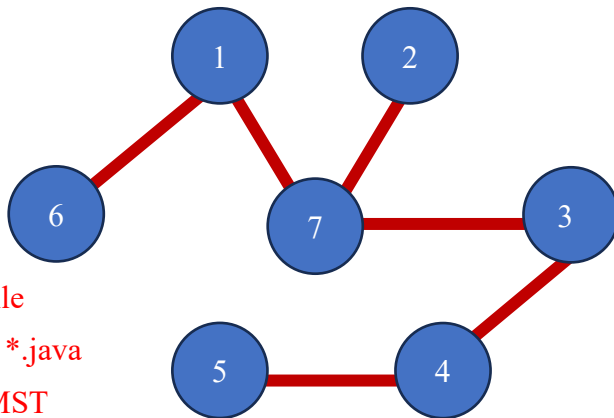
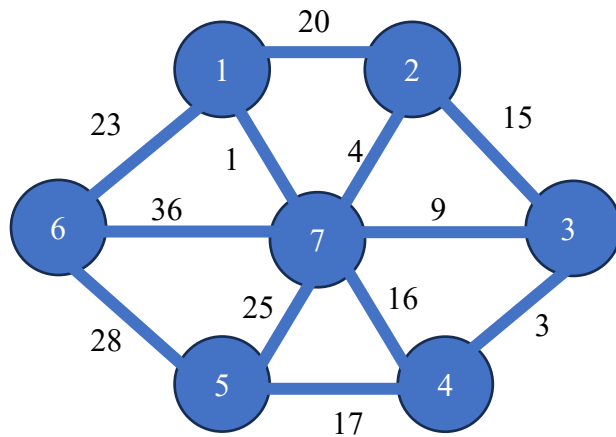
b) Draw a spanning tree obtained by using the Depth First Search (DFS) algorithm.



c) Draw the minimum spanning tree obtained by the Prim's algorithm.



Problem 2. (50 points) Write a program implementing Kruskal's algorithm. Upload your source code. Show your input graph and the obtained MST in the space below.



compile
javac *.java
java MST

input
7
12
1 2 20
1 6 23
1 7 1
2 3 15
2 7 4
3 4 3
3 7 9
4 5 17
4 7 16
5 6 28
5 7 25
6 7 36