

CSci4041 F2010 Assignment 5

Section: 3

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Description

My implementation of mst2 isn't very good. It simply keeps track of a solution list and checks to see if a given vertex is in it and the queue before adding it to the queue.

Then, if the vertex was either in the queue before or just added, it continues with the pseudocode provided in the book.

Analysis

Time

For mst1

For graph 1 – 0 seconds

For graph 2 – 2 seconds

For graph 3 – 13 seconds

For graph 4 – 418 seconds

For mst2

For graph 1 – 0 seconds

For graph 2 – 4 seconds

For graph 3 – 23 seconds

For graph 4 – 784 seconds

MST Cost

For graph 1 – 829

For graph 2 – 9679

For graph 3 – 18663

For graph 4 – 623688