

Input for Minimum Spanning Tree algorithm:

Input when asked for number of bridges: 7

Input for network description

B1: D E F G H

B2: C E

B3: A C

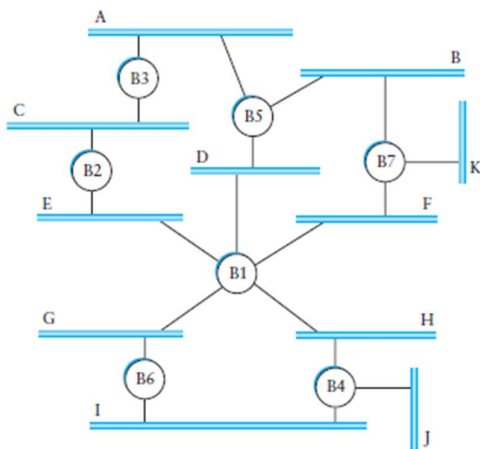
B4: H I J

B5: A B D

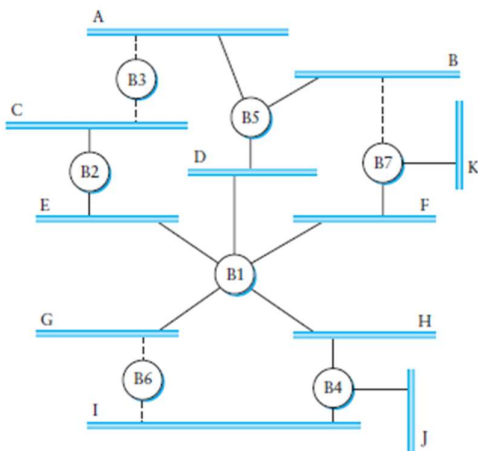
B6: G I

B7: B F K

Initial Network:



After stabilization:



Expected Output:

B1: D-Designated. E-Designated. F-Designated. G-Designated. H-Designated.

B2: C-Designated. E-Active

B3: All ports closed.

B4: H-Active I-Designated. J-Designated.

B5: A-Designated. B-Designated. D-Active

B6: All ports closed.

B7: B-Closed F-Active K-Designated.

- If one lan is added to network, which is connected to the bridge B6.
- Then input:

7

B1: D E F G H

B2: C E

B3: A C

B4: H I J

B5: A B D

B6: G I L

B7: B F K

- Output:

B1: D-Designated. E-Designated. F-Designated. G-Designated. H-Designated.

B2: C-Designated. E-Active

B3: All ports closed.

B4: H-Active I-Designated. J-Designated.

B5: A-Designated. B-Designated. D-Active

B6: G-Active I-Closed L-Designated.

B7: B-Closed F-Active K-Designated.

Because B6 can't be closed then as it's the only bridge connected to lan L.