Step 1

Flow/Cap

Flow = 5

Bottleneck = 5

Step 1
Residual
Network

Forward/Back

Step 2

Bottleneck = 4

Flow/Cap

Flow = 9

Top graph edges:
- S → A: 4/8
- A → D: 4/4
- D → G: 4/4
- G → T: 4/13
- A → B: 0/3
- A → E: 0/1
- D → E: 0/3
- E → G: 0/9
- S → B: 0/2
- B → E: 0/20
- E → T: 0/2
- S → C: 5/10
- C → B: 0/4
- C → F: 5/6
- E → F: 0/8
- F → T: 5/5

Step 2 Residual Network

Forward/Back

Bottom graph edges:
- S → A: 4/4
- D → A: 0/4
- G → D: 0/4
- A → B: 3/0
- A → E: 1/0
- D → E: 3/0
- E → G: 9/0
- G → T: 9/4
- S → B: 2/0
- B → E: 20/0
- E → T: 2/0
- S → C: 5/5
- C → B: 4/0
- C → F: 1/5
- E → F: 8/0
- T → F: 0/5

Step 3

Flow/Cap

Flow = 13

S —4/8→ A

A —4/4→ D —4/4→ G

A —0/3→ B

A —0/1→ E

D —0/3→ E

S —0/2→ B

B —4/20→ E

E —4/9→ G

G —8/13→ T

S —9/10→ C

C —4/4→ B   Bottleneck = 4

E —0/2→ T

C —5/6→ F

E —0/8→ F

F —5/5→ T

Step 3
Residual
Network

Forward/Back

D —0/4→ A

G —0/4→ D

S —4/4→ A

A —3/0→ B

A —1/0→ E

D —3/0→ E

E —5/4→ G

G —5/8→ T

S —2/0→ B

B —16/4→ E

E —2/0→ T

S —1/9→ C

B —0/4→ C

E —8/0→ F

T —0/5→ F

C —1/5→ F

Step 4

Flow/Cap

Flow = 16

Bottleneck = 3

Step 4
Residual
Network

Forward/Back

Step 5

Bottleneck = 1

Flow/Cap

Flow = 17

S → A: 8/8
A → D: 4/4
D → G: 4/4
A → B: 3/3
A → E: 1/1
D → E: 0/3
E → G: 8/9
G → T: 12/13
S → B: 0/2
B → E: 7/20
E → T: 0/2
S → C: 9/10
C → B: 4/4
E → F: 0/8
C → F: 5/6
F → T: 5/5

Step 5
Residual
Network

Forward/Back

D → A: 0/4
G → D: 0/4
S → A: 1/7
B → A: 0/3
E → A: 0/1
D → E: 3/0
E → G: 1/8
G → T: 1/12
S → B: 2/0
B ↔ E: 13/7
E → T: 2/0
S → C: 1/9
B → C: 0/4
E → F: 8/0
T → F: 0/5
C ↔ F: 1/5

Step 6

Flow/Cap

Flow = 19

Bottleneck = 2

Step 6
Residual
Network

Forward/Back

End
Step

Flow/Cap

A —4/4→ D —4/4→ G

S —8/8→ A

A —3/3→ B

A —1/1→ E

D —0/3→ E

E —8/9→ G

G —12/13→ T

Flow = 19

S —2/2→ B

B —9/20→ E

E —2/2→ T

S —9/10→ C

C —4/4→ B

E —0/8→ F

F —5/5→ T

C —5/6→ F

Min Cut: 19