

D → **A** → **C** → **A** → **B** → **A**
→ **C** → **B** → **C** → **B** → **C** → **A**
→ **D** → **A** → **D** → **A** → **D** →
A → **exit**

D → C → B → C → D → C
→ A → B → A → D → A → C
→ D → B → C → exit

experiment 1

route 2

D → **C** → **A** → **D** → **C** → **B**
→ **C** → **D** → **A** → **C** → **D** → **A**
→ **C** → **A** → **B** → **C** → **exit**

C → B → A → D → A → D
→ B → A → C → B → C → A
→ D → B → C → exit

D → C → A → B → D → A
→ B → D → A → D → B → D
→ B → D → A → C → D → A
→ D → B → C → A → D → A
→ exit

C → **A** → **D** → **B** → **A** → **D**
→ **A** → **D** → **C** → **B** → **D** → **B**
→ **A** → **D** → **B** → **D** → **A** →
B → **D** → **exit**

C → D → C → D → B → A
 → B → A → B → A → D → B → B
 → C → D → A → C → B → D
 → B → A → D → exit

D → A → D → B → C → A
→ B → A → B → A → B → C
→ B → A → B → exit

	D	→	A	→	C	→	B	→	A	→	D
→	C	→	D	→	A	→	C	→	B	→	D
→	A	→	B	→	A	→	C	→	B	→	D
→	B	→	D	→	B	→	C	→	B	→	C
→	exit										

C → A → C → B → A → D
→ A → C → D → A → D →
B → D → A → B → C → D →
C → D → A → B → exit

D → C → B → D → B → C
→ B → C → B → D → C → B
→ D → A → B → A → D →
A → D → C → exit

$\begin{array}{cccccccccccc} & \mathbf{C} & \rightarrow & \mathbf{B} & \rightarrow & \mathbf{A} & \rightarrow & \mathbf{D} & \rightarrow & \mathbf{A} & \rightarrow & \mathbf{D} \\ \rightarrow & \mathbf{B} & \rightarrow & \mathbf{D} & \rightarrow & \mathbf{C} & \rightarrow & \mathbf{D} & \rightarrow & \mathbf{A} & \rightarrow & \mathbf{D} \\ \mathbf{D} & \rightarrow & \mathbf{C} & \rightarrow & \mathbf{exit} & & & & & & & \end{array}$

C → B → A → D → A → D
→ A → D → B → A → D → B
→ A → C → B → D → exit

D → **A** → **D** → **B** → **D** → **B**
→ **C** → **B** → **C** → **D** → **C** → **D**
→ **B** → **exit**

	C	→	B	→	C	→	B	→	C	→	B
→	C	→	B	→	C	→	D	→	B	→	A
→	C	→	B	→	D	→	C	→	D	→	B
→	C	→	B	→	D	→	B	→	D	→	
exit											

$\begin{array}{cccccccccccc}
D & \rightarrow & B & \rightarrow & D & \rightarrow & B & \rightarrow & C & \rightarrow & B \\
\rightarrow & A & \rightarrow & C & \rightarrow & A & \rightarrow & D & \rightarrow & A & \rightarrow \\
D & \rightarrow & C & \rightarrow & B & \rightarrow & C & \rightarrow & A & \rightarrow & C & \rightarrow \\
B & \rightarrow & A & \rightarrow & \text{exit} & & & & & & &
\end{array}$

C → D → C → B → A → B
→ C → B → A → B → D → A
→ D → A → B → C → B → A
→ D → B → exit

C → D → A → D → C → A
→ C → D → C → B → D → C
→ D → C → A → D → B → C
→ D → A → exit

D → A → C → B → C → D
 → A → D → C → B → A → D
 → B → D → B → D → B → C
 → A → C → A → B → exit

C → B → D → B → C → A
→ C → B → D → A → B → C
→ D → A → B → C → A → D
→ A → B → C → exit

C → **B** → **C** → **B** → **D** → **C**
 → **A** → **D** → **A** → **D** → **A** → **C**
 → **A** → **C** → **A** → **D** → **C** → **B**
 → **D** → **A** → **D** → **A** → **D** →
exit

C → A → B → A → C → A
→ B → D → A → D → A →
C → B → C → D → A → D →
A → D → A → exit

C → B → A → D → C → D
→ C → A → B → A → D → C
→ D → B → C → D → A → B
→ A → B → exit

C → B → D → A → D → A
→ D → A → D → A → C → B
→ D → A → D → C → A → D
→ A → D → B → C → exit

D → A → B → C → B → C
→ D → A → B → C → D → C
→ D → C → A → B → A → C
→ exit

D → **A** → **D** → **A** → **D** → **A**
→ **D** → **A** → **B** → **A** → **D** → **A**
A → **D** → **A** → **D** → **exit**

	D	→	B	→	D	→	C	→	B	→	A
→	B	→	A	→	C	→	B	→	D	→	A
→	D	→	C	→	D	→	B	→	C	→	B
→	A	→	C	→	B	→	C	→	B	→	C
→	exit										

C → D → A → D → A → C
→ B → D → A → B → C → B
→ C → D → exit

C → B → D → A → D → B
→ C → D → B → A → C → D
→ C → B → exit

$D \rightarrow A \rightarrow D \rightarrow B \rightarrow C \rightarrow D$
 $\rightarrow A \rightarrow D \rightarrow A \rightarrow D \rightarrow A \rightarrow$
 $\underline{D} \rightarrow A \rightarrow B \rightarrow D \rightarrow A \rightarrow \underline{D} \rightarrow$
 $\underline{B} \rightarrow A \rightarrow B \rightarrow A \rightarrow \text{exit}$

C → A → B → C → D → A
→ B → A → D → B → C → B
→ D → A → exit

D → **A** → **B** → **D** → **A** → **B**
 → **C** → **B** → **A** → **D** → **A** → **D**
 → **C** → **A** → **D** → **B** → **C** → **B**
 → **C** → **B** → **D** → **A** → **D** → **A**
 → **exit**

C → B → C → A → D → A
→ D → A → B → A → B → C
→ B → C → A → D → A → D
→ A → D → A → D → A →
exit

$D \rightarrow A \rightarrow D \rightarrow A \rightarrow D \rightarrow B$
 $\rightarrow A \rightarrow D \rightarrow A \rightarrow D \rightarrow B \rightarrow$
 $C \rightarrow D \rightarrow B \rightarrow D \rightarrow A \rightarrow B \rightarrow$
 $D \rightarrow C \rightarrow \text{exit}$

D → **B** → **D** → **A** → **D** → **C**
 → **B** → **C** → **B** → **A** → **D** → **C**
 → **A** → **B** → **A** → **C** → **D** → **B**
 → **C** → **A** → **C** → **exit**

C → B → C → D → A → C
→ B → A → C → B → C → D
→ A → D → A → D → A →
C → D → B → exit

D → A → D → A → D → C
→ B → A → D → A → D → B
→ D → B → D → A → D → A
→ C → D → A → D → exit

C → B → D → A → B → D
→ C → B → D → A → D → A
→ D → A → D → A → B →
A → B → C → B → D → B →
exit

D → C → B → C → A → C
→ A → C → A → C → D → A
→ D → B → C → D → B → C
→ D → A → C → B → exit

C → D → A → D → A → D
→ C → A → D → C → B → D
→ A → D → B → A → B → C
→ D → A → D → exit

C → **A** → **D** → **B** → **C** → **B**
→ **C** → **A** → **C** → **B** → **C** → **A**
→ **D** → **B** → **C** → **exit**

C → A → D → C → A → C
→ B → C → A → C → B → D
→ C → B → C → A → D → A
→ D → B → exit

C → B → D → C → B → A
 → D → B → C → B → C → D
 → C → B → D → A → D → A
 → B → C → exit

D \rightarrow **A** \rightarrow **C** \rightarrow **A** \rightarrow **D** \rightarrow **B**
 \rightarrow **C** \rightarrow **A** \rightarrow **D** \rightarrow **A** \rightarrow **D** \rightarrow
A \rightarrow **D** \rightarrow **A** \rightarrow **exit**

$C \rightarrow A \rightarrow C \rightarrow B \rightarrow C \rightarrow D$
 $\rightarrow A \rightarrow D \rightarrow B \rightarrow D \rightarrow A \rightarrow$
 $B \rightarrow D \rightarrow A \rightarrow D \rightarrow B \rightarrow C \rightarrow$
 $D \rightarrow A \rightarrow D \rightarrow \text{exit}$

D → **A** → **D** → **C** → **D** → **A**
→ **D** → **C** → **B** → **C** → **A** → **C**
→ **A** → **exit**

C → **B** → **D** → **B** → **C** → **B**
→ **A** → **C** → **A** → **C** → **B** → **D**
→ **A** → **D** → **A** → **D** → **A** →
B → **C** → **D** → **A** → **exit**

C → A → B → C → B → C
 → A → B → A → B → C → B
 → C → B → D → C → B → B
 → A → B → C → B → exit

C → B → D → A → D → A
→ C → B → C → A → D → A
→ B → D → A → C → B → C
→ A → D → C → D → A →
D → exit

D → **C** → **B** → **C** → **B** → **D**
→ **A** → **D** → **C** → **D** → **A** →
B → **A** → **C** → **A** → **D** → **B** →
exit