

Exercise 01 :

1. Find a DS for S (using the tables).

Etat initial	Entrée	Sortie	Etat final	Etat initial	Entrée	Sortie	Etat final
S1	i	y	S4	S1	j	x	S2
S2	i	y	S2	S2	j	y	S3
S3	i	x	S2	S3	j	x	S3
S4	i	x	S1	S4	j	y	S4

Etat initial	Entrée	Sortie	Etat final	Etat initial	Entrée	Sortie	Etat final
S1	ij	yy	S3	S1	iii	yxy	S4
S2	ij	yy	S3	S2	iii	yyy	S2
S3	ij	xy	S3	S3	iii	xyy	S2
S4	ij	xx	S2	S4	iii	xyx	S1

=====> **iii** is a **DS** for S

2. Show that: {i, j} is a W for S (using the tables).

Etat initial	Entrée	Sortie
S1	{i, j}	yx
S2	{i, j}	yy
S3	{i, j}	xx
S4	{i, j}	xy

=====> **{i,j}** is a **W** for S

1. Generate a test sequence from S using:
 - The DS method.

Tr	Préambule	Transition	Sortie
T1	Reset/null	j/x	i/y j/y
T2	Reset/null j/x	i/y	i/y j/y
T3	Reset/null j/x j/y	i/x	i/y j/y
T4	Reset/null j/x	j/y	i/x j/x
T5	Reset/null j/x j/y	j/x	i/x j/x
T6	Reset/null i/y	j/y	i/x j/x
T7	Reset/null	i/y	i/x j/y
T8	Reset/null i/y	i/x	j/x i/y

- The W method.

Tr	Préambule	Transition	Sortie
T1	Reset/null	j/x	i/y
T1	Reset/null	j/x	j/y
T2	Reset/null j/x	i/y	i/y
T2	Reset/null j/x	i/y	j/y
T3	Reset/null j/x j/y	i/x	i/y
T3	Reset/null j/x j/y	i/x	j/y
T4	Reset/null j/x	j/y	i/x
T4	Reset/null j/x	j/y	j/x
T5	Reset/null j/x j/y	j/x	i/x
T5	Reset/null j/x j/y	j/x	j/x
T6	Reset/null i/y	j/y	i/x
T6	Reset/null i/y	j/y	j/x
T7	Reset/null	i/y	i/x
T7	Reset/null	i/y	j/y
T8	Reset/null i/y	i/x	i/y
T8	Reset/null i/y	i/x	j/x

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