Example:

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | F,0 |
| B | D,1 | F,0 |
| C | E,0 | B,0 |
| D | B,1 | E,0 |
| E | D,0 | B,0 |
| F | D,1 | B,0 |

Step 1:

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | F,0 |
| B | D,1 | F,0 |
| C | E,0 | B,0 |
| D | B,1 | E,0 |
| E | D,0 | B,0 |
| F | D,1 | B,0 |

SAME OUTPUTS (A,C,E),(B,D,F)

P1 P2

Step 2:

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | F,0 |
| C | E,0 | B,0 |
| E | D,0 | B,0 |
| B | D,1 | F,0 |
| D | B,1 | E,0 |
| F | D,1 | B,0 |

0 successor of (A,C,E) IS (C,E,D) WE OBSERVE THAT (A,C)=(C,E) IS PRESENT IN P1 AND (E)=(D) IS PRESNT IN P2

SO PARTITION IT **(A,C),(E)**

1 SUCCESSOR OF (A,C,E) IS (F,B,B) WE OBSERVE THAT IT IS PRESNT IN P2 SO NEED TO PARTITION

0 SUCCESSOR OF (B,D,F) IS (D,B,B) WE OBSERVE THAT IT IS PRESNT IN P2 SO NEED TO PARTITION

1 SUCCESSOR OF(B,D,F) IS (F,E,B) WE OBSERVE THAT (B,F) =(F,B) ARE PRESENT IN P2 AND (D)=(E) IS PRESENT IN P1

SO PARTITION IT (B,F),(D)

SO FINALLY (A,C),(E),(B,F),(D)

P3 P4 P5 P6

Step 3:

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | F,0 |
| C | E,0 | B,0 |
| E | D,0 | B,0 |
| B | D,1 | F,0 |
| F | D,1 | B,0 |
| D | B,1 | E,0 |

0 SUCCESSOR OF (a,c) is (c,e)we observe that (A) =(C) IS IN P3 AND (C)=(E) IS IN P4 SO PARTITION IT (A),(C)

1 SUCCESSOR OF (A,C) IS (F,B) WE OBSERVE THAT IT IS P5 SO NO PARTITION

0 SUCCESSOR OF (B,F) IS (D,D) WE OBSERVE THAT IT IS IN P6 SO NEED TO PARTITION

1 SUCCESSOR OF (B,F) IS (F,B) WE OBSERVE THAT IT IS IN P5 SO NEED TO PARTTION

SO FINALLY (A),(C),(E), (B,F),(D)

P7 P8 P9 P10 P11

STEP 4:

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | F,0 |
| C | E,0 | B,0 |
| E | D,0 | B,0 |
| B | D,1 | F,0 |
| F | D,1 | B,0 |
| D | B,1 | E,0 |

0 SUCCESSOR OF (B,F) IS (D,D) WE OBSERVE THAT IT IS IN P11 SO NEED TO PARTITION

1 SUCCESSOR OF (B,F) IS (F,B) WE OBSERVE THAT IT IS IN P10 SO NEED TO PARTTION

SO FINALLY (A),(C),(E), (B,F),(D)

B=F

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | B,0 ~~F,0~~ |
| B | D,1 | B,0 ~~F,0~~ |
| C | E,0 | B,0 |
| D | B,1 | E,0 |
| E | D,0 | B,0 |
| ~~F~~ | ~~D,1~~ | ~~B,0~~ |

Reduced State table:

So finally

|  |  |  |
| --- | --- | --- |
| PS | NS,Z | |
| X=0 | X=1 |
| A | C,0 | B,0 |
| B | D,1 | B,0 |
| C | E,0 | B,0 |
| D | B,1 | E,0 |
| E | D,0 | B,0 |