B10402123 葉澤賢

Digital logic design homework4: Project04: State Minimization

Case1(6 states)

```
Digital_homework3 >  ≡ case1.kiss
  1   .start_kiss
  2   .i 1
  3   .o 1
  4   .p 12
  5   .s 6
  6   .r a
  7   0 a a 0
  8   1 a b 0
  9   0 b c 0
 10   1 b d 0
 11   0 c a 0
 12   1 c f 0
 13   0 d e 0
 14   1 d f 1
 15   0 e e 0
 16   1 e f 1
 17   0 f b 0
 18   1 f a 1
 19   .end_kiss
 20
```

```
Digital_homework3 >  ≡ output1.kiss
  1  |.start_kiss
  2   .i 1
  3   .o 1
  4   .p 10
  5   .s 5
  6   .r a
  7   0 a a 0
  8   1 a b 0
  9   0 b c 0
 10   1 b d 0
 11   0 c a 0
 12   1 c f 0
 13   0 d e 0
 14   1 d f 1
 15   0 f b 0
 16   1 f a 1
 17   .end_kiss
```

Case2(5 states)

```
Digital_homework3 >  ≡ case2.kiss
  1   .start_kiss
  2   .i 1
  3   .o 1
  4   .p 10
  5   .s 5
  6   .r a
  7   0 a a 0
  8   1 a c 0
  9   0 b c 0
 10   1 b a 0
 11   0 c e 0
 12   1 c b 0
 13   0 d e 0
 14   1 d b 0
 15   0 e a 0
 16   1 e c 1
 17   .end_kiss
 18   |
```

```
1  |.start_kiss
2  .i 1
3  .o 1
4  .p 8
5  .s 4
6  .r a
7  0 a a 0
8  1 a c 0
9  0 b c 0
10 1 b a 0
11 0 c e 0
12 1 c b 0
13 0 e a 0
14 1 e c 1
15 .end_kiss
```

Case3(4 state)

```
1  |.start_kiss
2  .i 1
3  .o 1
4  .p 6
5  .s 3
6  .r a
7  0 a a 0
8  1 a c 0
9  0 b a 0
10 1 b b 0
11 0 c d 0
12 1 c b 1
13 .end_kiss
```

```
1  .start_kiss
2  .i 1
3  .o 1
4  .p 8
5  .s 4
6  .r a
7  0 a a 0
8  1 a c 0
9  0 b a 0
10 1 b b 0
11 0 c d 0
12 1 c b 1
13 0 d a 0
14 1 d b 0
15 .end_kiss
16
```