```
7.1 (1) (q_0, 0|0010, Z_0) + \{(q_1, 0|0010, Z_0) + (q_1, 10010, Z_0) + \{(q_1, 0010, Z_0) \mid 0\}

(q_1, 0|0010, Z_0) + \{(q_1, 10010, 0Z_0) + \{(q_2, 0010, 0Z_0) \mid 0\}
                                          ① (q_1,0010,Z_0) \vdash (q_1,010,Z_0) \vdash (q_1,10,Z_0) \vdash (q_2,0,Z_0) \vdash (q_3,E,Z_0) 不成功
                                          ②(92,0010,Zo)+(93,010,0Zo)+(93,10,00Zo)+(94,0,00Zo)+(94,8,00Zo)不成功
                                         ③ (94,000,020)ト(94,010,020)ト(94,10,020)ト (94,0,020)ト (94,を,020)が成功があるけん。 (94,000,020)ト (94,を,20)ト 
                                           (45,0010,020) 1- (96,010,20) 1- (98,010,色) 不成功
                   (2) (90, 100101001, Zo) + {(91, 100101001, Zo) + {(91, 00101001, Zo) + (93, 0101001, Zo) B
(92, 100101001, Zo) 不成功
                             (91, 8, 20) 不成功

(91, 8, 20) 不成功

(91, 8, 20) 不成功

(92, 8, 20) 不成功

(93, 10) (93, 11, 0020) (94, 8, 0020) 不成功

(94, 01, 020) (94, 1, 020) (94, 8, 020) 不成功

(94, 8, 020) 不成功

(94, 8, 020) 不成功

(94, 8, 020) 不成功
                                                                      1- (20,01,20)1-(98,01,10)不成功
                                 (2) (23,0101001,020) 1- (23,101001,0020) + { (95,01001,0020) 1- (96,1001,020) + (97,001,0020) (95,01001,020) 1- (96,1001,020) + (97,001,020)
                                                                     1- (94,01,0020)ト(94,1,0020)ト(194, 8,0020)不成功
                                                  = ) ト (90,01,020)ト(90,1,20)ト ((98,1,2)不成功 (27, 2,20)ト(28) が功
                                                                     1- (97,01,020)1- (97,01,020)1- (97, E,020)不妨功
```

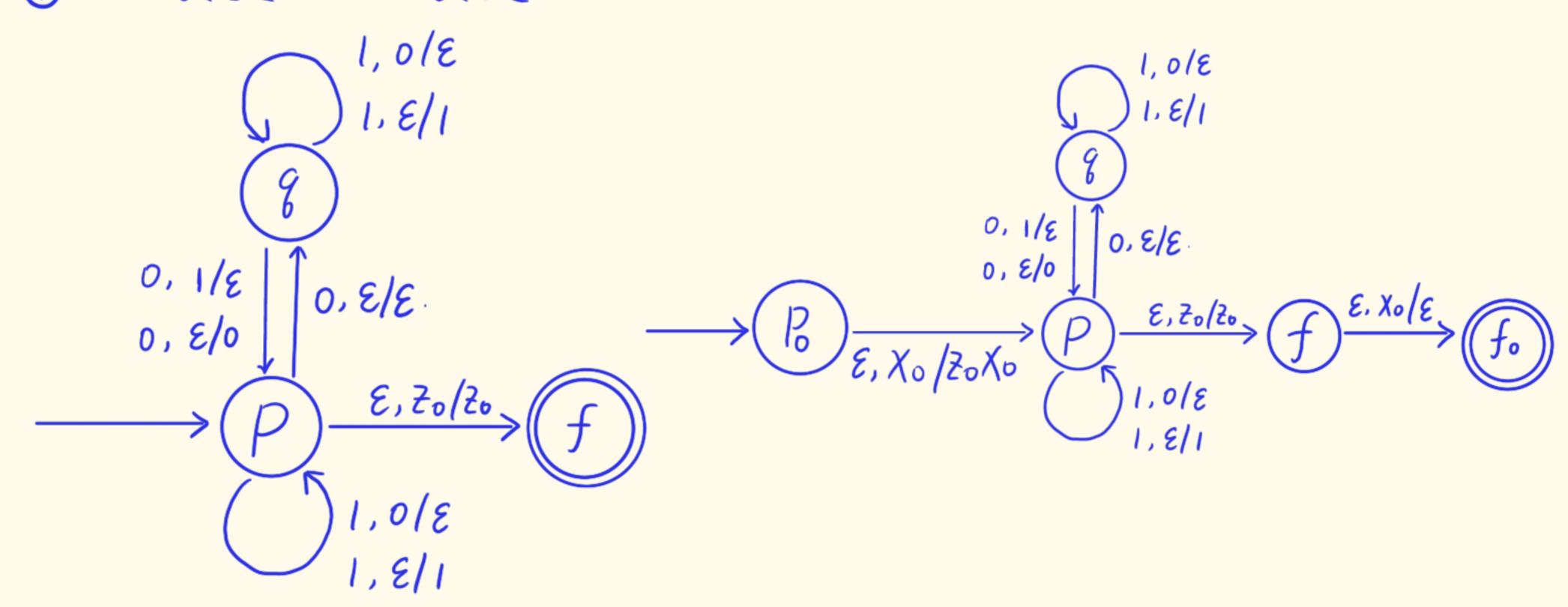
滅功 ① ($9,010010, 2_0$) $+ (92,010010, 2_0)$ $+ (93,10010,02_0)$ $+ (94,0010,02_0)$ $+ (94,000,02_0)$ $+ (94,10,02_0)$ $+ (95,0,02_0)$ $+ (96,2,2_0)$ $+ (83,0002_0)$

$$(2, 00101001, 20) + (2, 100101001, 20) + (2, 00101001, 20) + (2, 0101001, 020) + (2, 0101001, 0020) + (2, 01001, 0020) + (2, 001, 0020) + (2$$

由于失败情况很多,一一穷举不太可能,如果能给出来正确路径,可以酌情给分。

以接受状态接受的 PDA

以空栈方式接受。



(1)解:137.3中的PDA如下 $0,\epsilon/0$ $0,0/\epsilon$ $1,\epsilon/1$ $1,1/\epsilon$ 对于50, 转移函数有5(20,0, E) S(20,1,E) 8 (8., 8, 8)

> 不满足∀SEQ, aeEU{E},×E[U{E}·S(S,a,X)至多只有一个成员 该PDA不是确定型的。