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a	b	a	b	c	a	b	c	a	b	a	b	a	b	d
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

i=1

π : [0 0 1 2 0]

a	b	a	b	d
0	1	2	3	4	5 } index.

T[i] == p[j+1]

{

i++ ;

j++ ;

1) T[1] = p[0+1]

a == a . ⟶ ✓ ⟹ i = 2

j = 1.

2) T[2] = p[1+1]

b == b ⟶ ✓ ⟶ i = 3

j = 2.

3) T[3] == p[2+1]

a == a ⟶ ✓ ⟶ i = 4

j = 3

4) T[4] == p[3+1]

b == b ⟶ ✓ ⟶ i = 5

j = 4.

5) T[5] == p[4+1]

c == d → x → i = 5

j = π[j]

j = 2

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6) T[5] == p[2+1]

c == a ⟶ X ⟶ i = 5

j = π(j)

j = 0.

7) T[6] == p[0+1]

c == a ⟶ X ⟶ since j cannot be decremented anymore...!

i++;

i = 6

j = 0

8) T[6] == p[0+1]

a == a ⟶ ✓ ⟶ i = 7

j = 1.

9) T[7] == p[1+1]

b == b ⟶ ✓ ⟶ i = 8

j = 2.

10) T[8] == p[2+1]

c == a ⟶ X ⟶ i = 8

j = π[j]

j = 0

11) T[8] == p[0+1]

c == a ⟶ X ⟶ i = 9

j = 0

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12) T[9] == p[0+1]
a == a ⟶ ✓ ⟶ i = 10
j = 1

13) T[10] == p[1+1]
b == b ⟶ ✓ ⟶ i = 11
j = 2

14) T[11] == p[2+1]
a == a ⟶ ✓ ⟶ i = 12
j = 3

15) T[12] == p[3+1]
b == b ⟶ ✓ ⟶ i = 13
j = 4

16) T[13] == p[4+1]
a == d ⟶ x ⟶ i = 13
j = π[j]
j = 2

17) T[13] == p[2+1]
a == a ⟶ ✓ ⟶ i = 14
j = 3.

18) T[14] == p[3+1]
b == b ⟶ ✓ ⟶ i = 15
j = 4.

19) T[15] == p[4+1]
d == d ⟶ ✓ ⟶ i = 16

Matching index = i - length (P)

= 16 - 5

= 4 11