

9)

j	0	1	2	3	4	5	6
$PE[j]$	9	8	6	9	9	6	6
$f[j]$	0	1	0	1	2	3	0

$$j = 1: P[1] = P[0] \Rightarrow f(1) = 0.11 = 1$$
$$p(2) \neq p(0) \Rightarrow f(2) = 0$$

$j=3: P[3] = P[i=0] \Rightarrow f(3) = \text{false} \quad i+1 = 1, \quad i+=1$

$j=4: p[4] = p[1+1] \Rightarrow f(4) = i+1 = 2$; ~~$i=1$~~
 $i=1$

$j=5; P[5] = P[i+2] \Rightarrow f(5) = i+1=3; \cancel{i+1} + i+1 = 1$

$j=6: P[6] \neq P[3] \Rightarrow$ take $P[i-1]$ and look at the $f[i-1]=0 \Rightarrow P[0]$ - is the element we should compare with now

$$p[6] \neq p[0]$$

As there are no more values to the left from

$$P[0] \Rightarrow f[6] = 0$$

b)	b	a	a	b	b	a	a	b	a	a	b	a	a	b	b		
	a(1)																
		a(2)	a(3)	b(4)													
			a(5)	a(6)													
				a(7)													
					a(8)												
						a(9)	a(10)	b(11)		a(12)	a(13)	b(14)	b(15)				
														a(16)	a(17)	b(18)	b(19)

prefix suffix
qab aah b - Stop

prefix = suffix \Rightarrow the last iteration starts from the 1st value of suffix, because ~~it is known~~ prefix is compared already before the step.

Total number of comparisons: 19

