Exercise in Lecture: (week 10)

Let P =ababbbababa. Compute the failure function values.

Solution:

i	1	2	3	4	5	6	7	8	9	10	11
Р	а	b	а	b	b	b	а	b	а	b	а
F(i)	0	0	1	2	0	0	1	2	3	4	3

q = 1	P(1) = a		f(1) = 0
q=2	P(2) = b	P(f(2-1) + 1) = a	f(2) = 0
q = 3	P(3) = a	P(f(3-1)+1) = a	f(3) = 1
q = 4	P(4) = b	P(f(4-1)+1) = b	f(4) = 2
q = 5	P(5) = b	P(f(5-1)+1) = a	
		P(ff(5-1)+1) = a	f(5) = 0
q = 6	P(6) = b	P(f(6-1)+1) = a	f(6) = 0
q = 7	P(7) = a	P(f(7-1) + 1) = a	f(7) = 1
q = 8	P(8) = b	P(f(8-1)+1) = b	f(8) = 2
q = 9	P(9) = a	P(f(9-1)+1) = a	f(9) = 3
q = 10	P(10) = b	P(f(10-1)+1) = b	f(10) = 4
q = 11	P(11) = a	P(f(11-1)+1) = b	
		P(ff(11-1)+1) = a	f(11) = 3