Review 10

2023085350 권3현

1. Fill in the following STACK and BINARY COUNTER example.

a) STACK

Stack										
Stack operation	-	PUSH	PUSH	POP	PUSH	PUSH	MULTI POP (*S*, 5)	PUSH	PUSH	PUSH	MULTI POP (*S*, 2)
Total amortized cost	0	2	4	4	6	8	8	10	12	14	14
Total actual cost	0	1	2	3	4	5	8	9	10	11	13
Φ	0	1	2	1	2	3	0	1	2	3	1

b) BINARY COUNTER

A[3]	*A*[2]	*A*[1]	*A*[0]	Total amortized cost	Total actual cost	Φ
0	0	0	0	0	0	0
0	0	0	1	2	1	1
0	0	1	0	4	3	1
0	0	1	1	6	4	2
0	1	0	0	8	7	1
0	1	0	1	10	8	2
0	1	1	0	12	10	2
0	1	1	1	14	11	3
1	0	0	0	16	15	1