


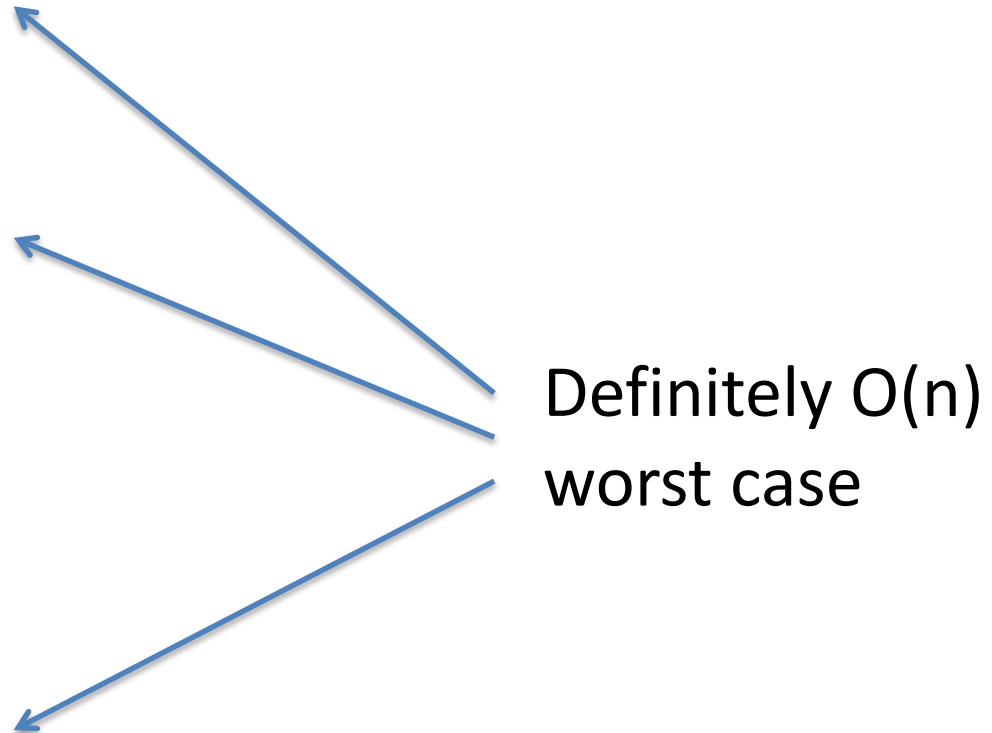

n-bit counter

000000
000001
000010
000011
000100
000101
000110
000111
001000



n-bit counter

000000
000001
000010
000011
000100
000101
000110
000111
001000
















n-bit counter

000000		Reserve 2 tokens	Pay 1	1 in reserve
000001		Reserve 2 tokens	Pay 2	1 in reserve
000010		Reserve 2 tokens	Pay 1	2 in reserve
000011		Reserve 2 tokens	Pay 3	1 in reserve
000100		Reserve 2 tokens	Pay 1	2 in reserve
000101		Reserve 2 tokens	Pay 2	2 in reserve
000110		Reserve 2 tokens	Pay 1	3 in reserve
000111		Reserve 2 tokens	Pay 4	1 in reserve
001000				

n-bit counter

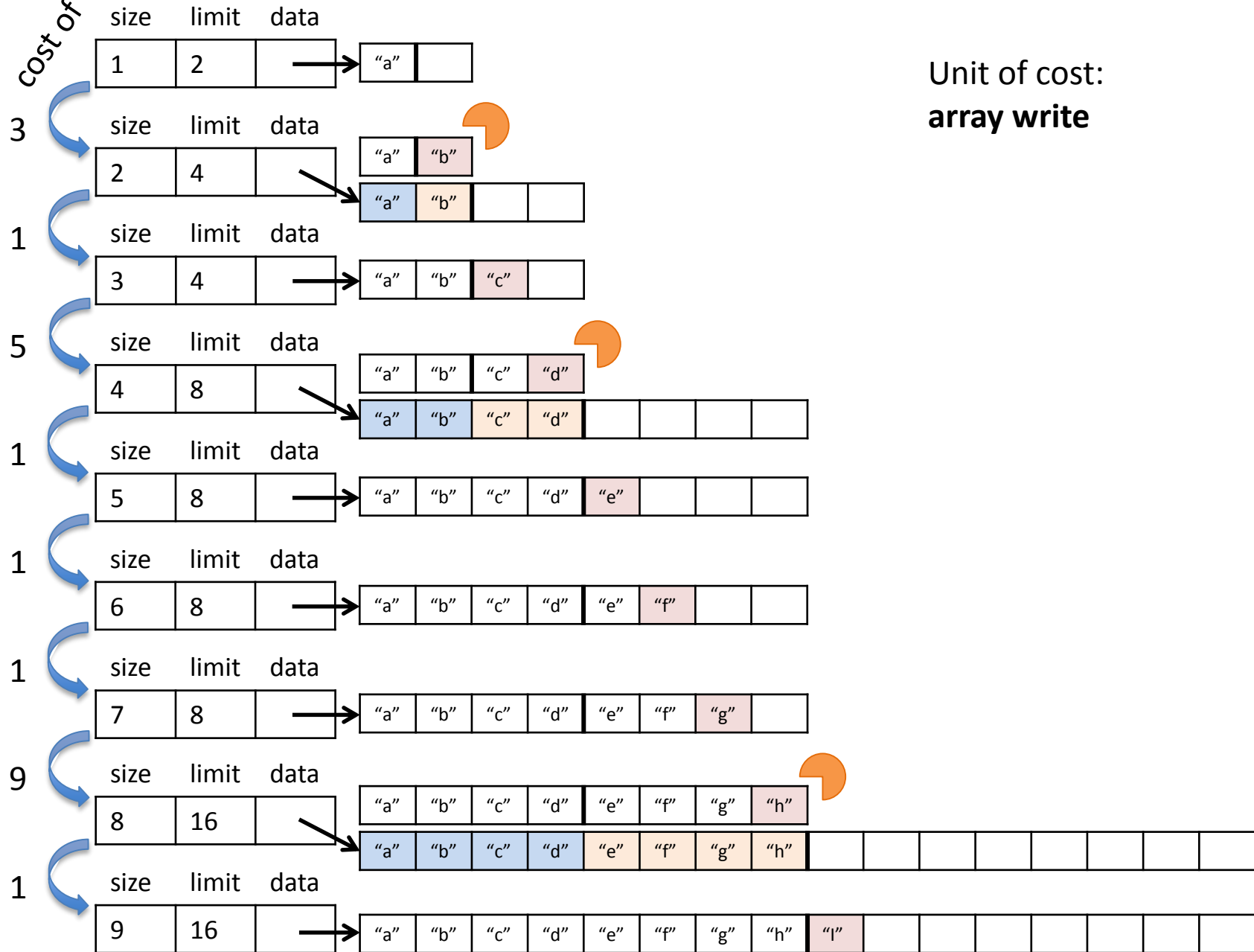
000000	Reserve 2 tokens
000001	Reserve 2 tokens
000010	Reserve 2 tokens
000011	Reserve 2 tokens
000100	Reserve 2 tokens
000101	Reserve 2 tokens
000110	Reserve 2 tokens
000111	Reserve 2 tokens
001000	Reserve 2 tokens

Pay 1	1  reserve
Pay 2	1  reserve
Pay 1	2   reserve
Pay 3	1  reserve
Pay 1	2   reserve
Pay 2	2   reserve
Pay 1	3    reserve
Pay 4	1  reserve

n-bit counter



cost of this add





Unit of cost:
array write

size	limit	data
3	6	

"r"	"o"	"b"			
-----	-----	-----	--	--	--






add("e")

size	limit	data
4	6	

"r"	"o"	"b"	"e"		
-----	-----	-----	-----	--	--

size	limit	data
5	6	

"r"	"o"	"b"	"e"	"r"	
-----	-----	-----	-----	-----	--

-  Write "e" immediately
-  Copy "e" on next resize
-  Copy matching element on next resize

size	limit	data
6	12	

"r"	"o"	"b"	"e"	"r"	"t"
-----	-----	-----	-----	-----	-----

"r"	"o"	"b"	"e"	"r"	"t"						
-----	-----	-----	-----	-----	-----	--	--	--	--	--	--

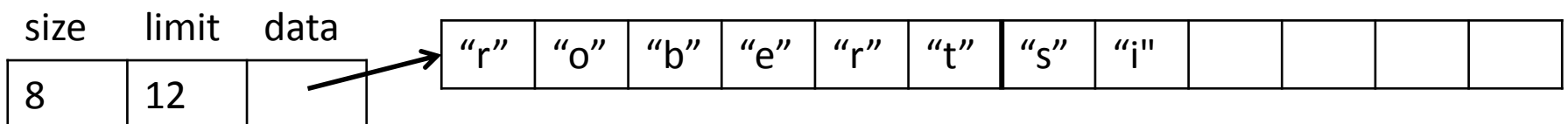
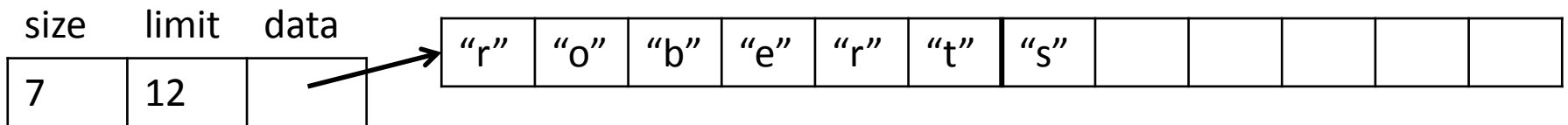
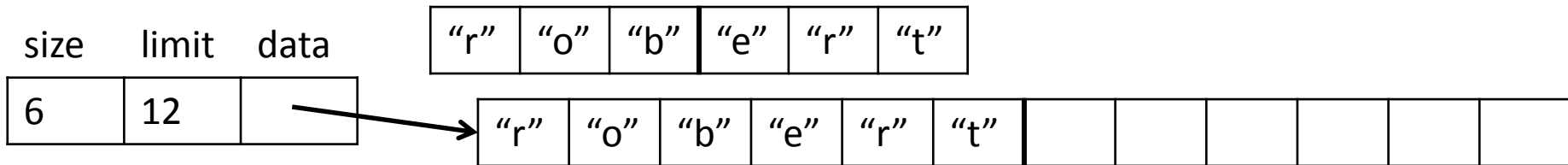
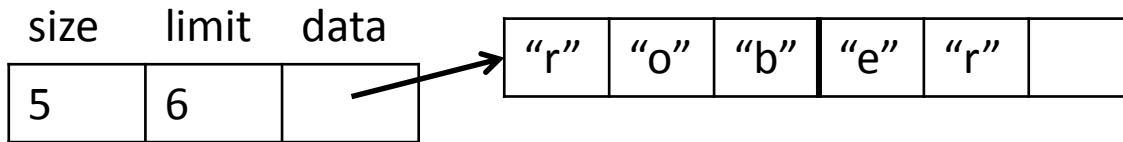
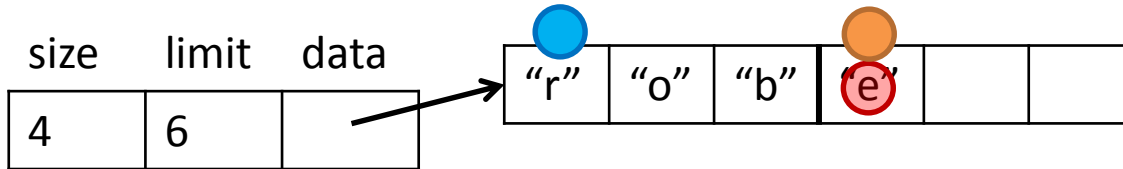
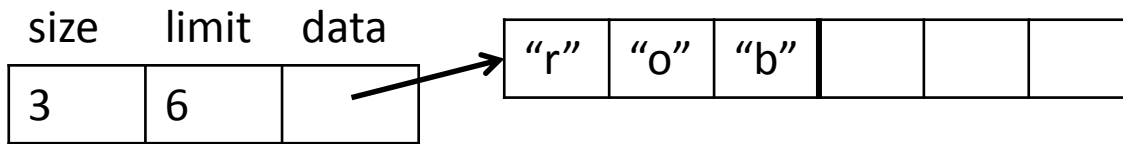
size	limit	data
7	12	

"r"	"o"	"b"	"e"	"r"	"t"	"s"					
-----	-----	-----	-----	-----	-----	-----	--	--	--	--	--

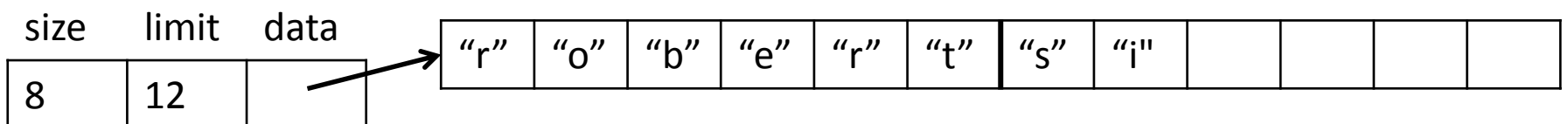
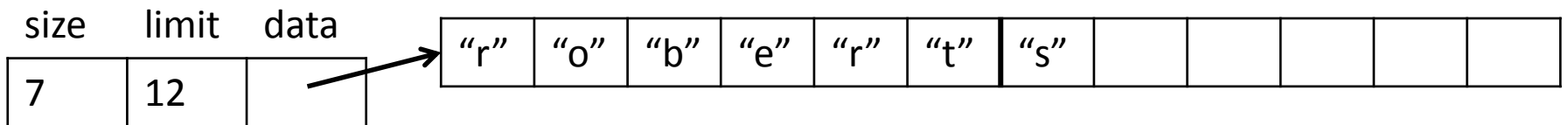
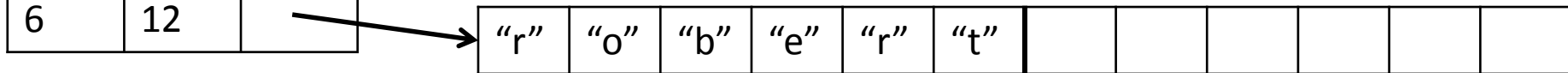
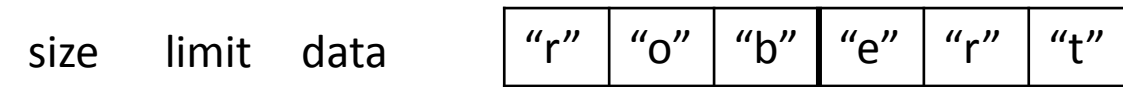
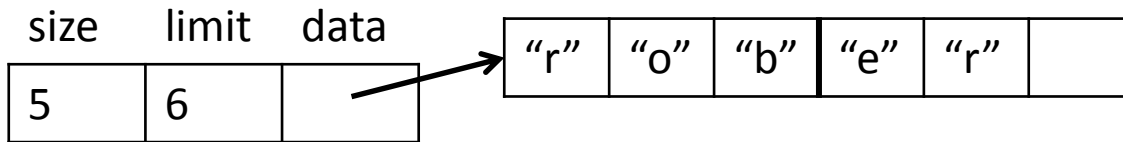
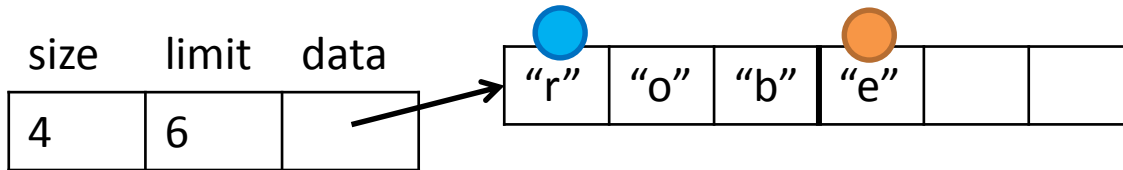
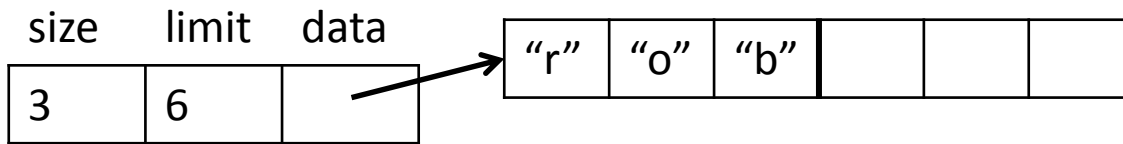
size	limit	data
8	12	

"r"	"o"	"b"	"e"	"r"	"t"	"s"	"i"				
-----	-----	-----	-----	-----	-----	-----	-----	--	--	--	--

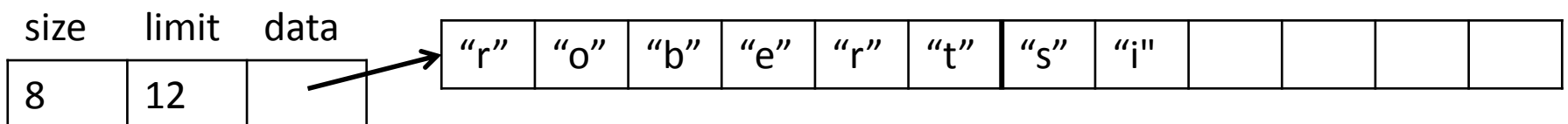
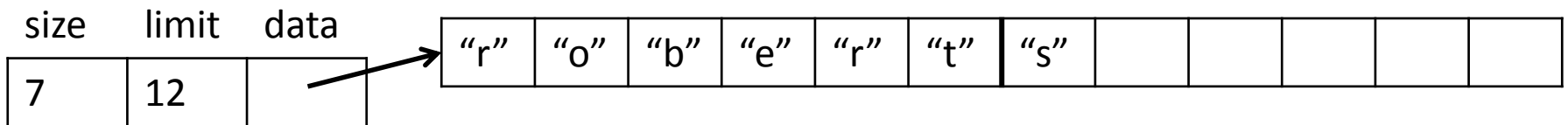
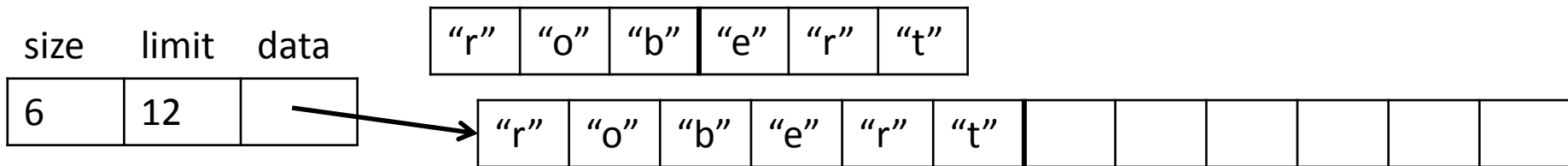
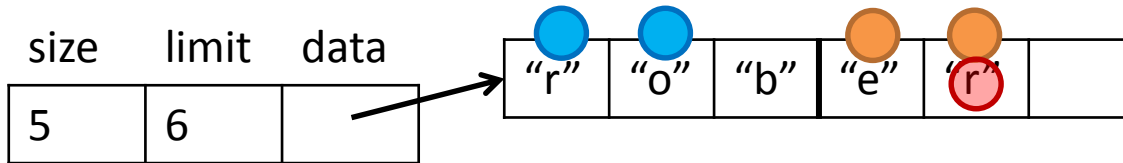
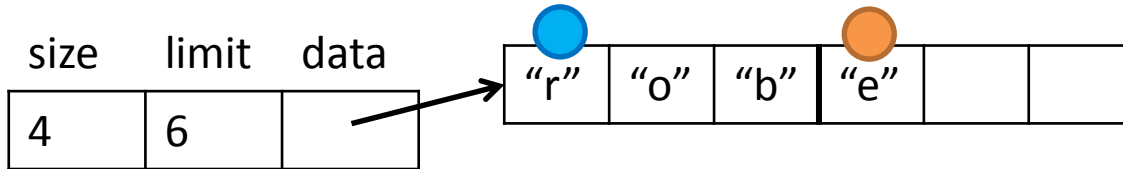
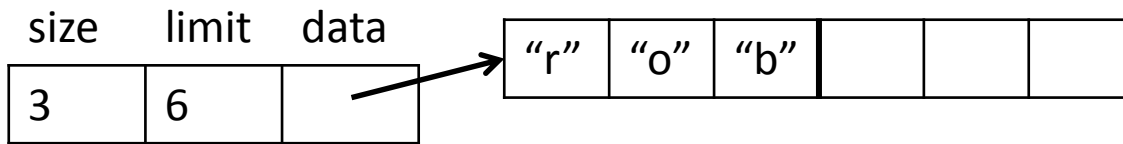
Unit of cost:
array write



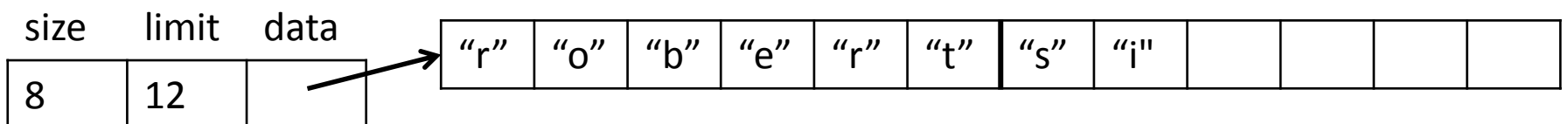
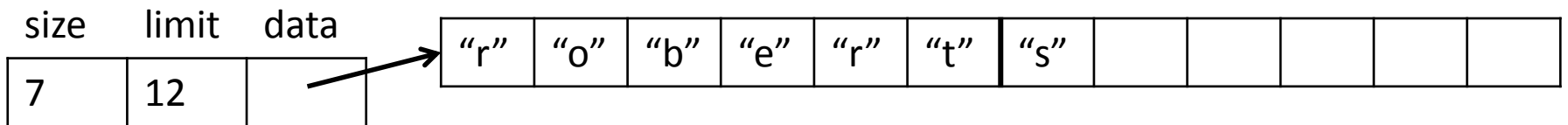
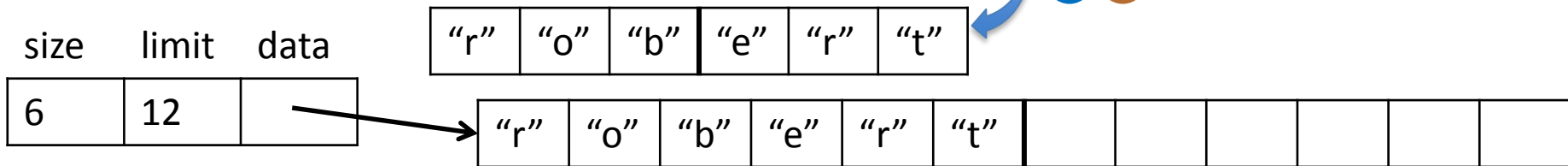
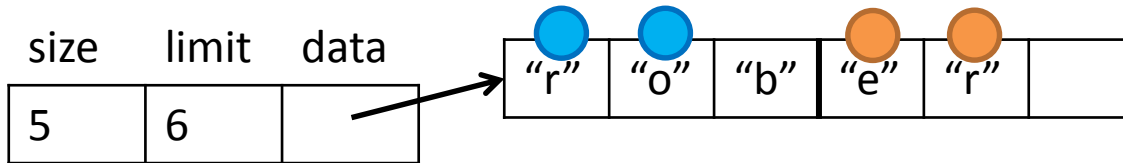
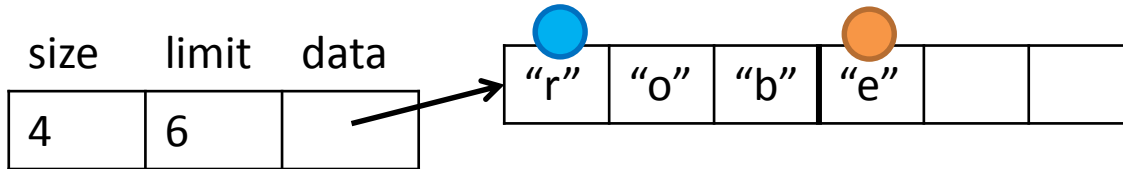
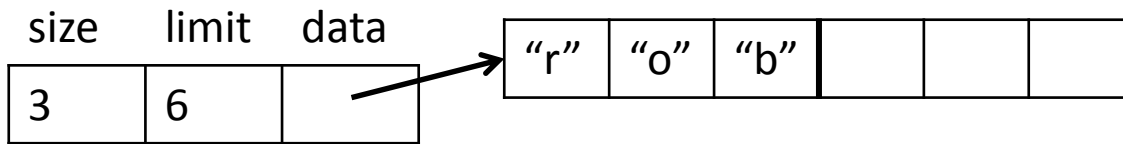
Unit of cost:
array write



Unit of cost:
array write

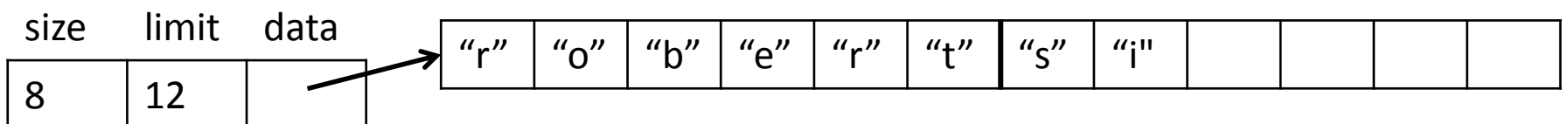
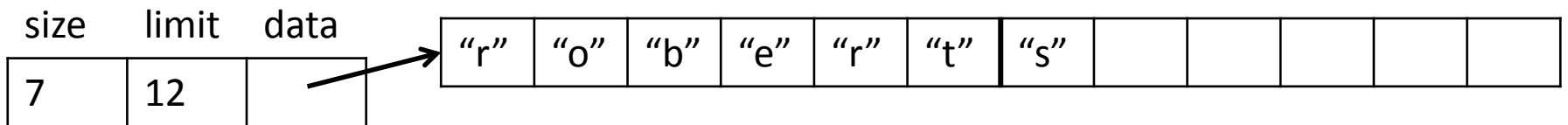
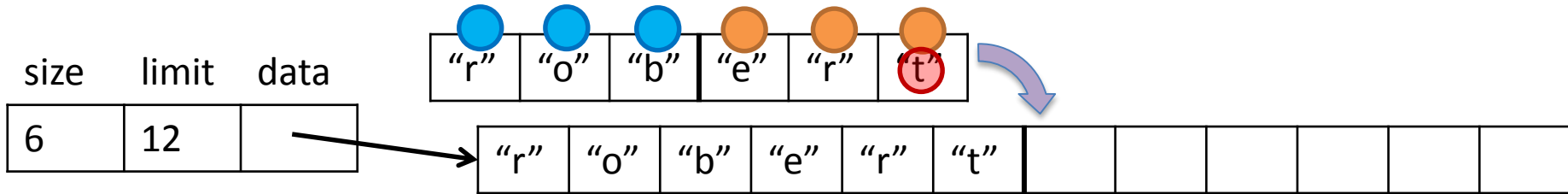
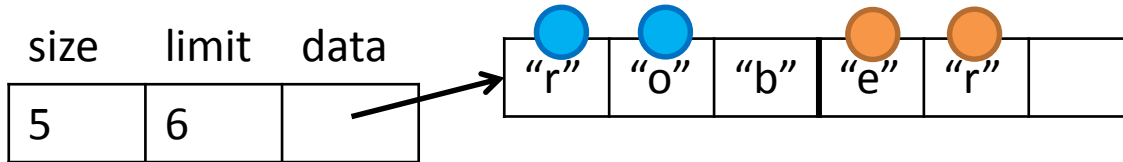
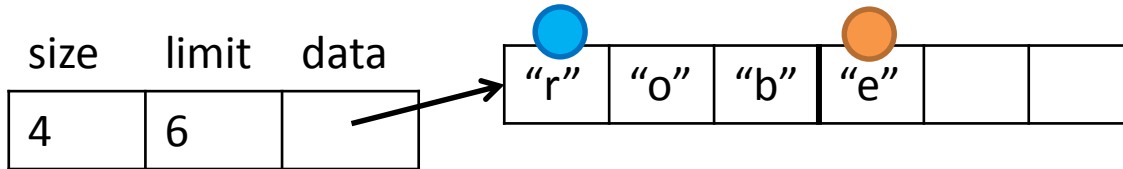
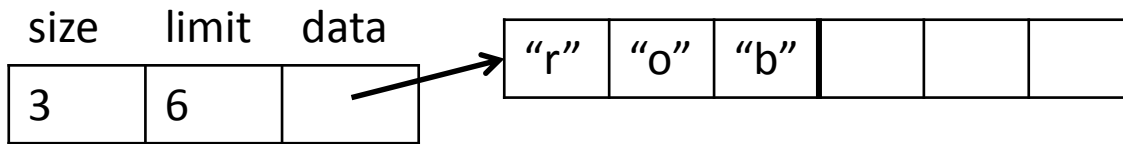


Unit of cost:
array write

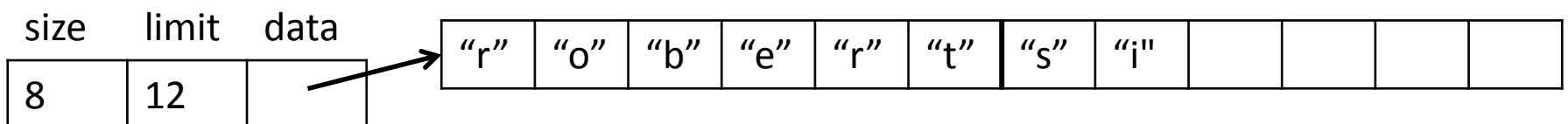
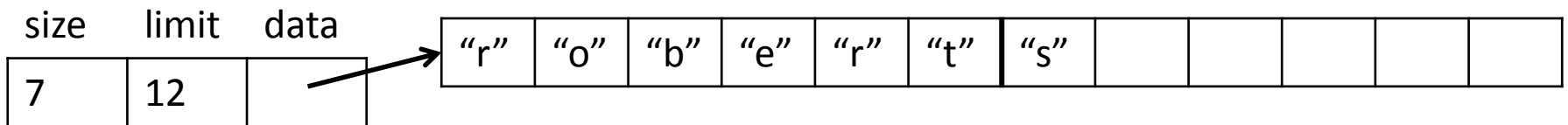
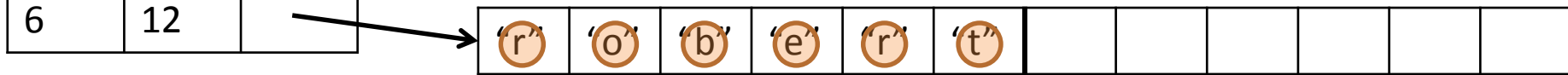
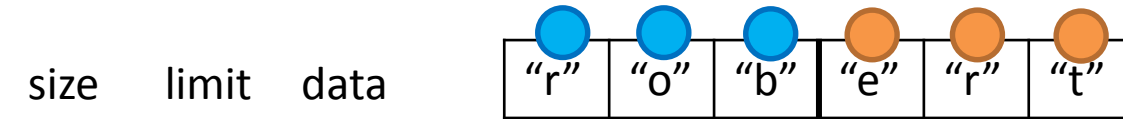
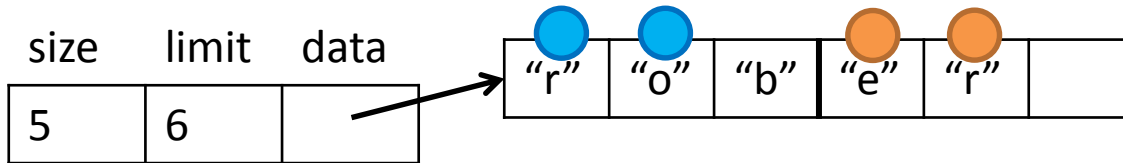
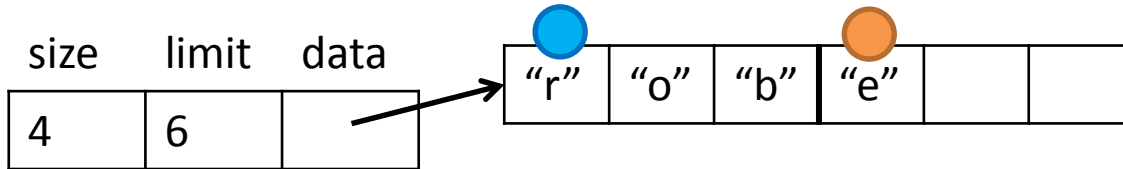
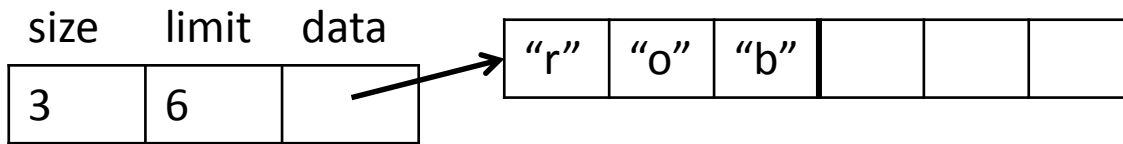


add(“t”)

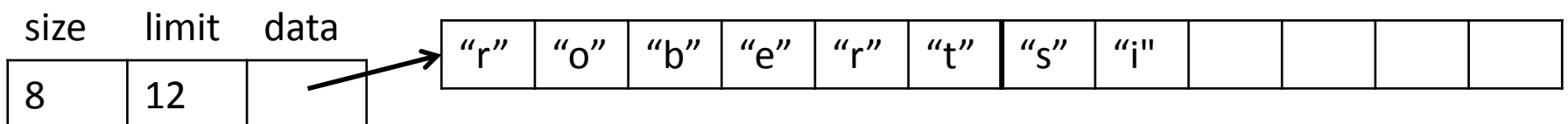
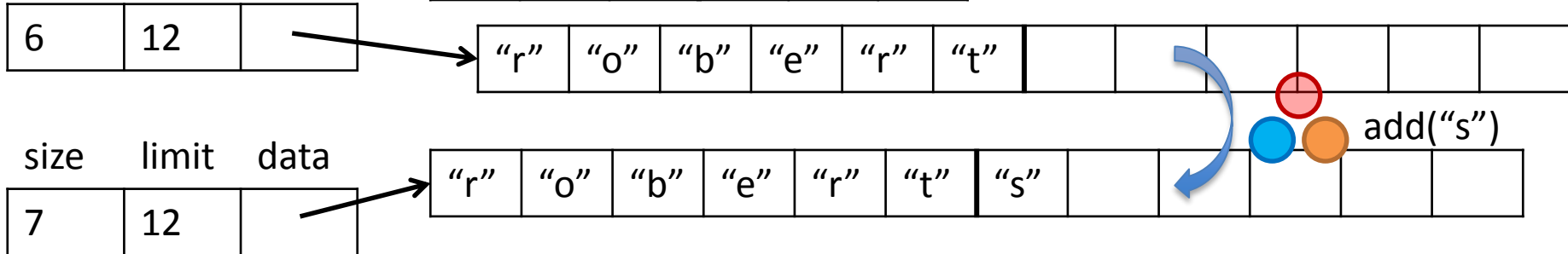
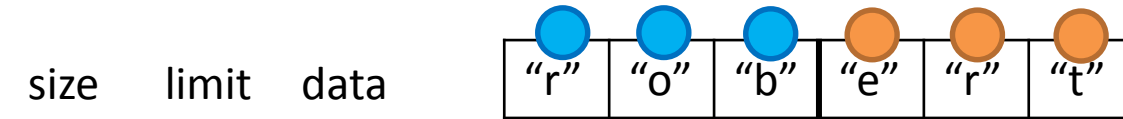
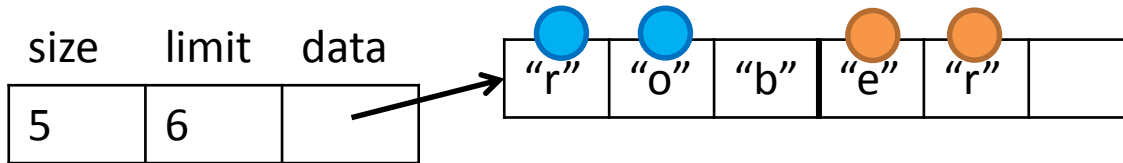
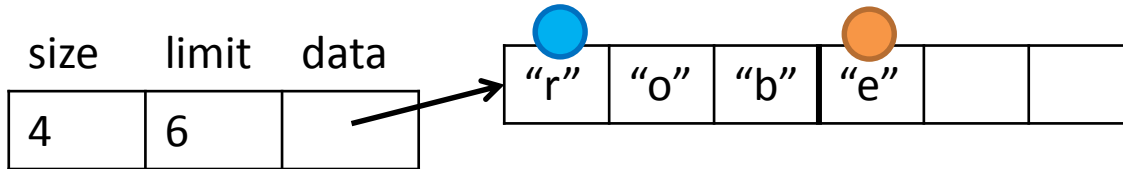
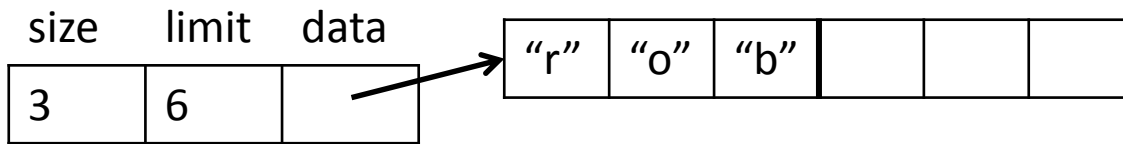
Unit of cost:
array write



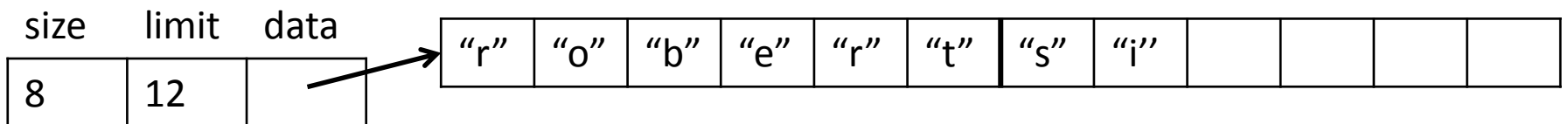
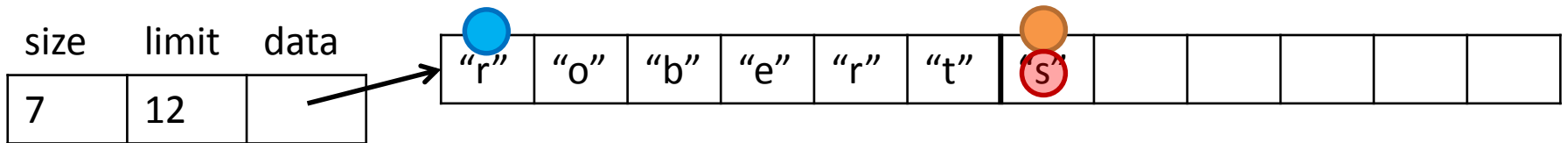
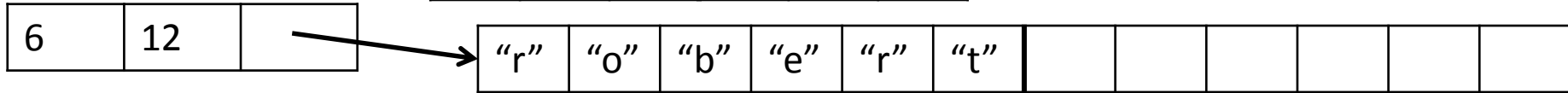
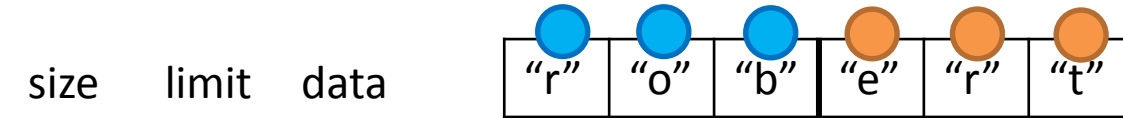
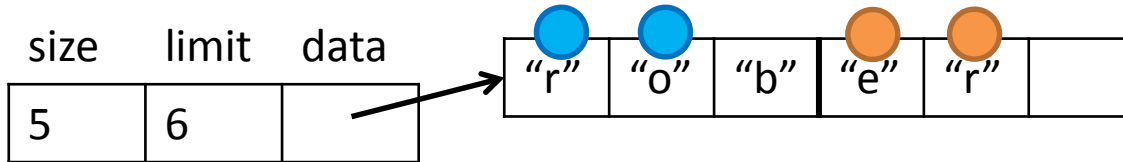
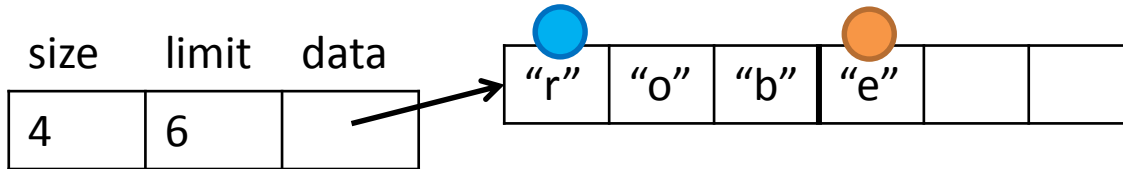
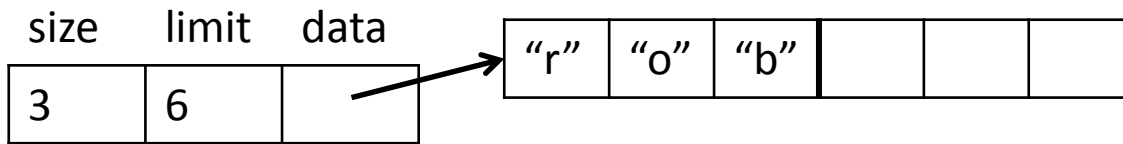
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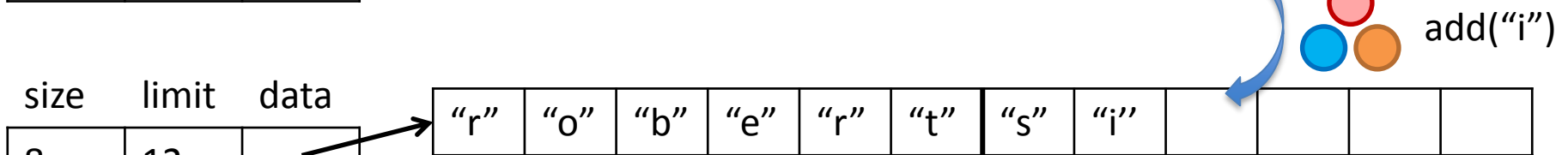
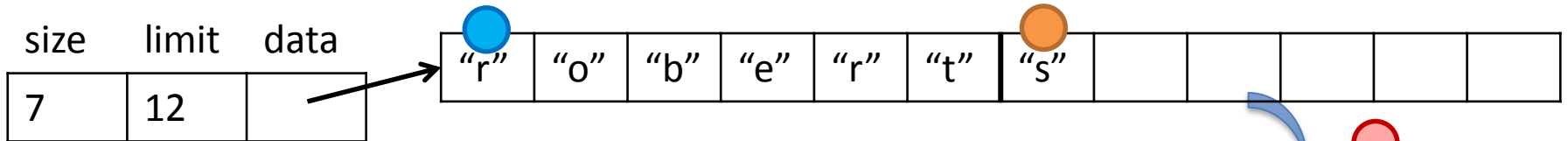
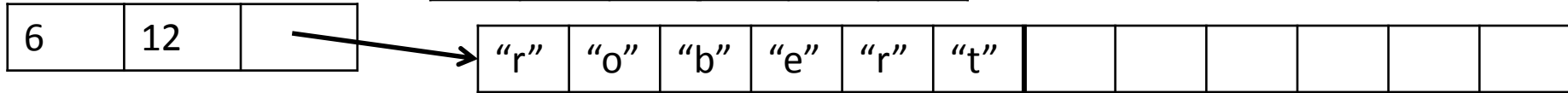
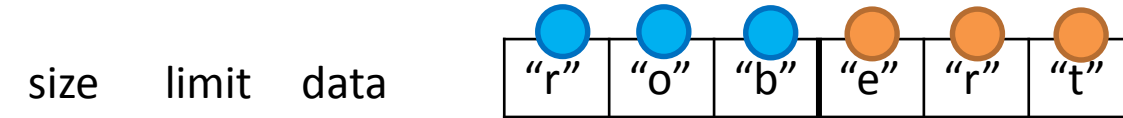
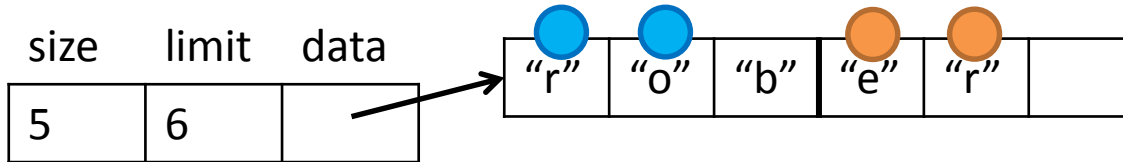
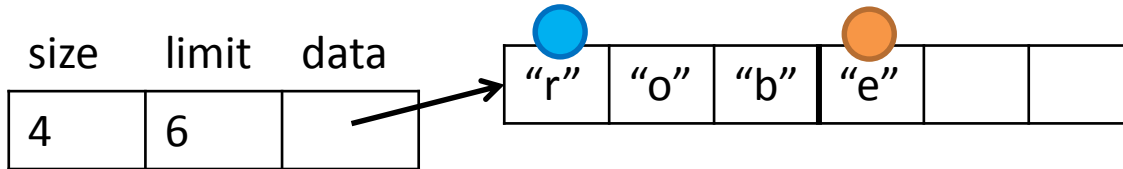
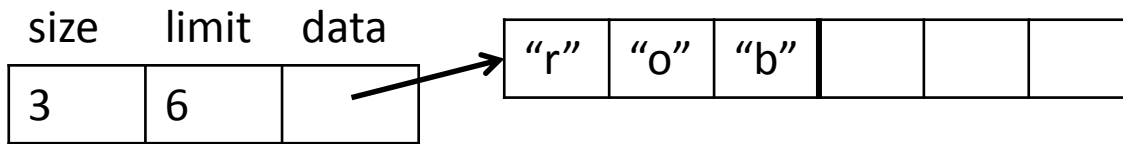
Unit of cost:
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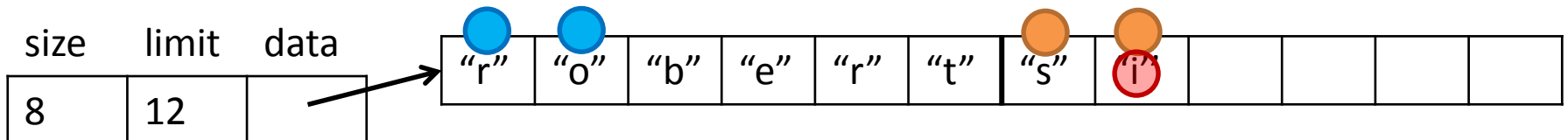
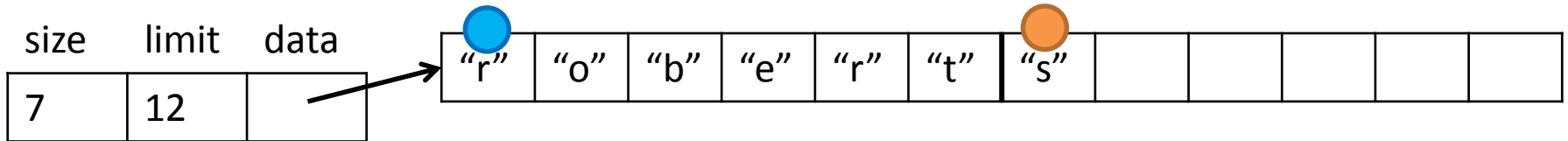
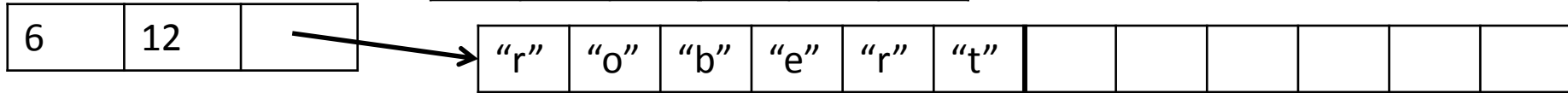
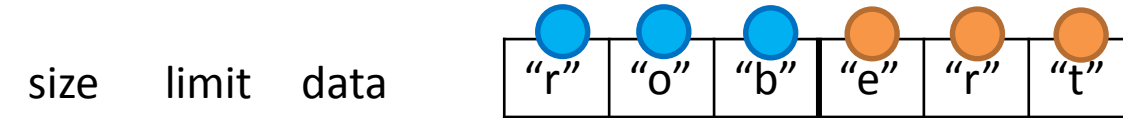
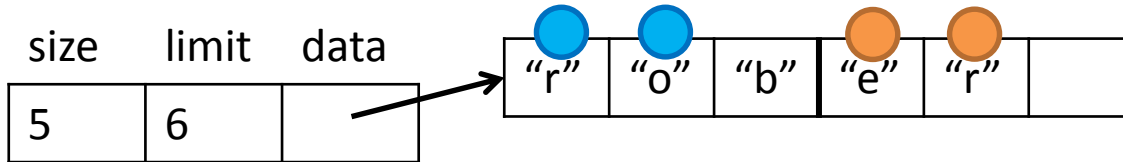
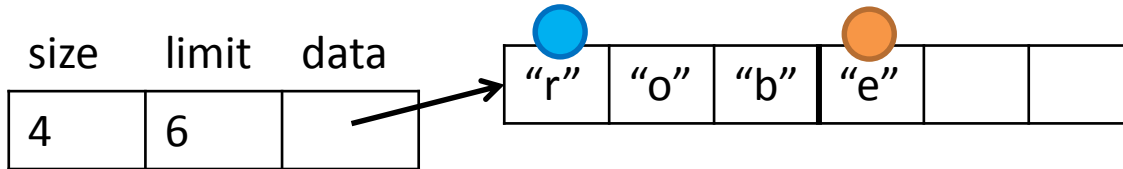
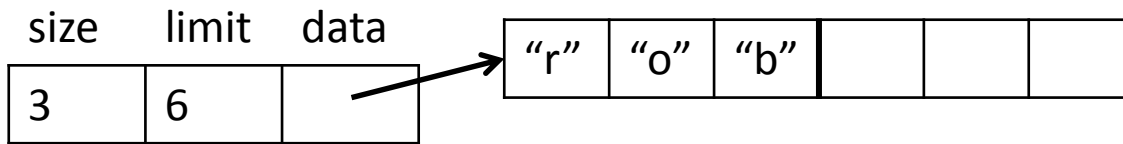
Unit of cost:
array write



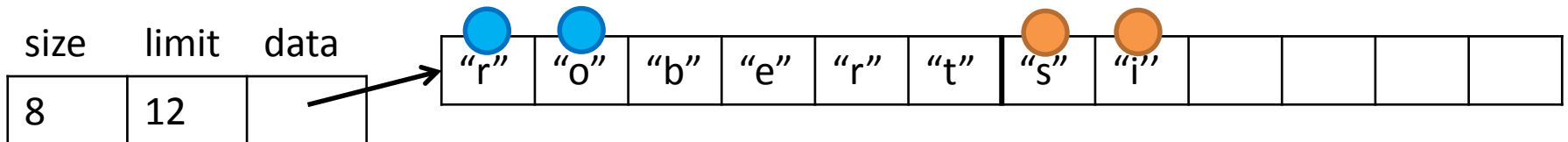
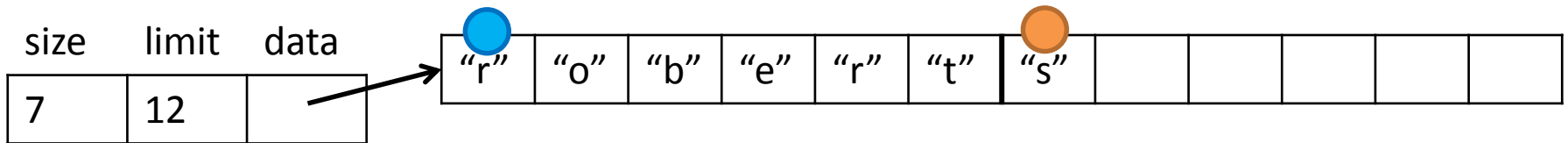
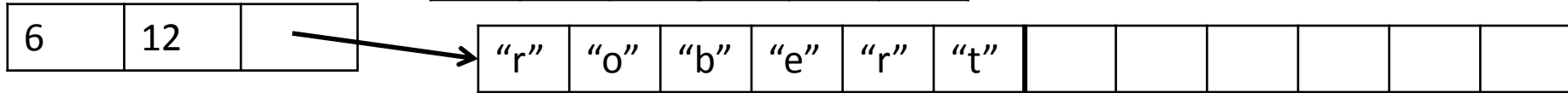
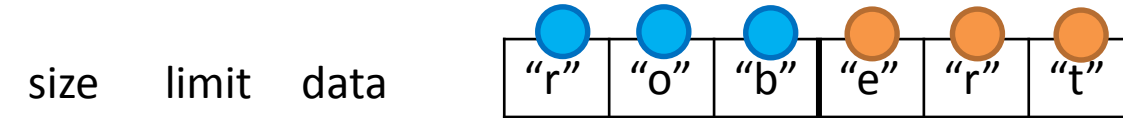
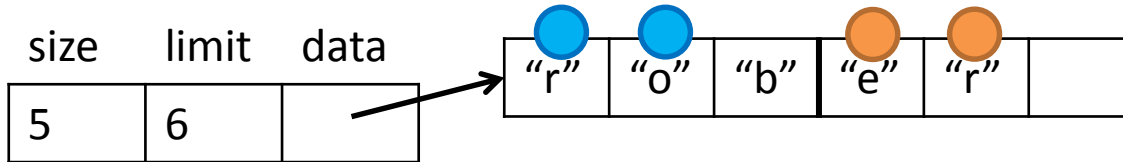
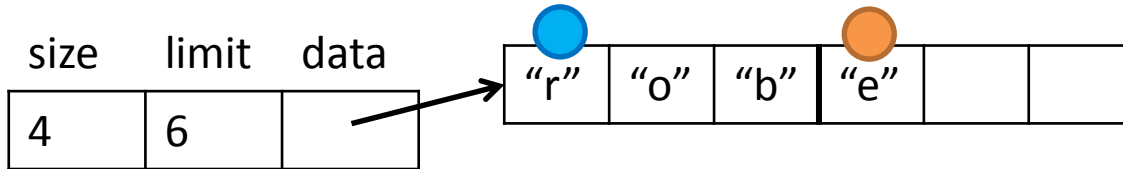
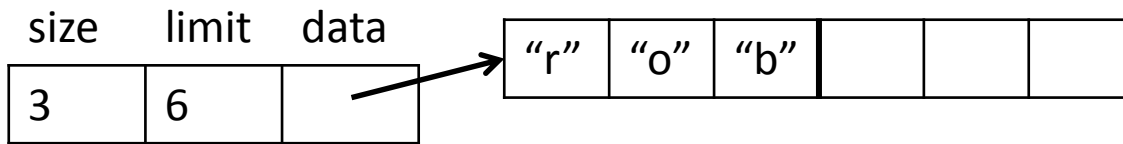
Unit of cost:
array write

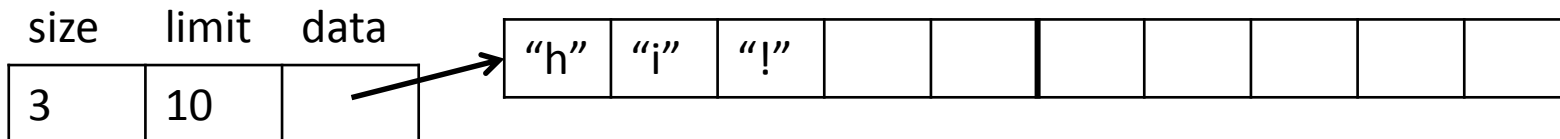
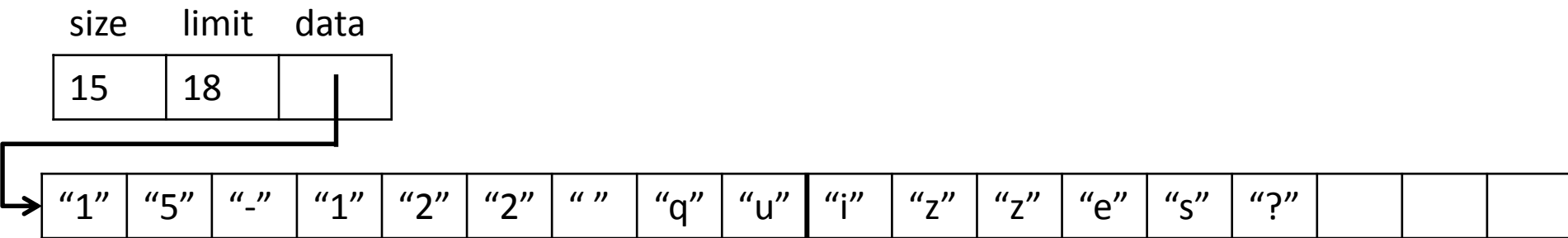
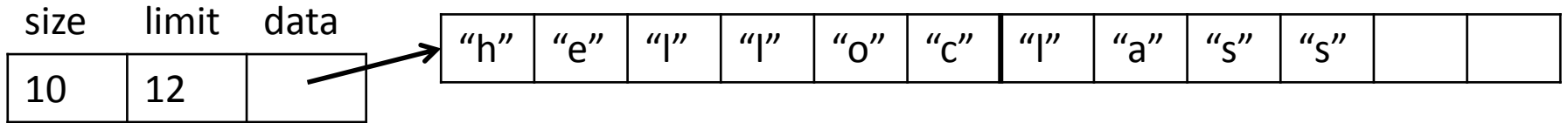
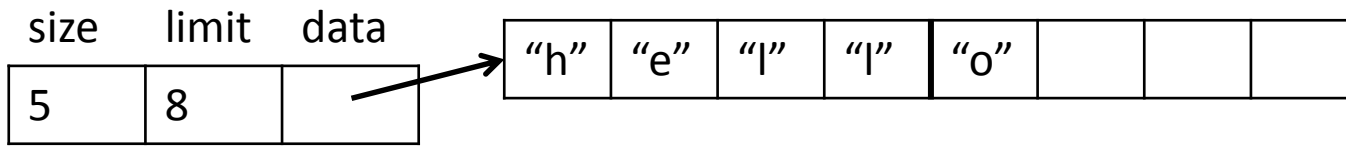


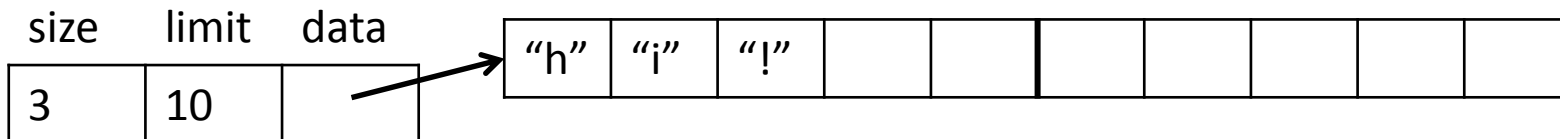
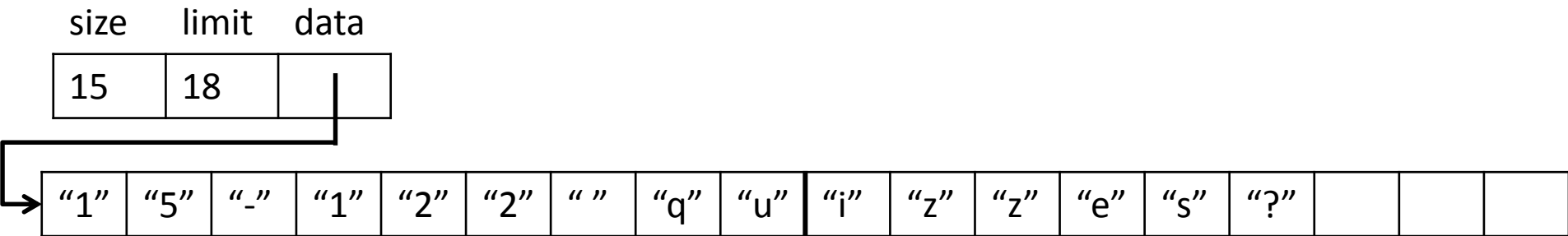
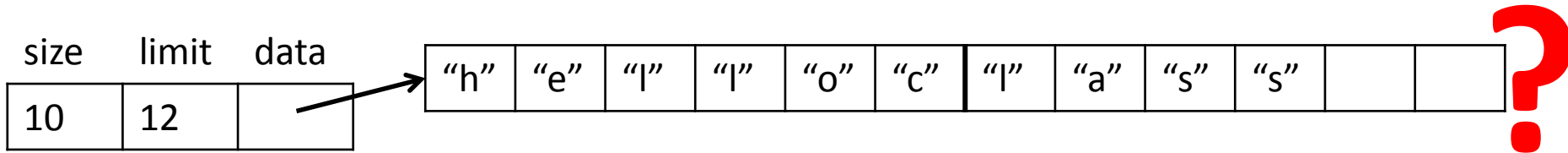
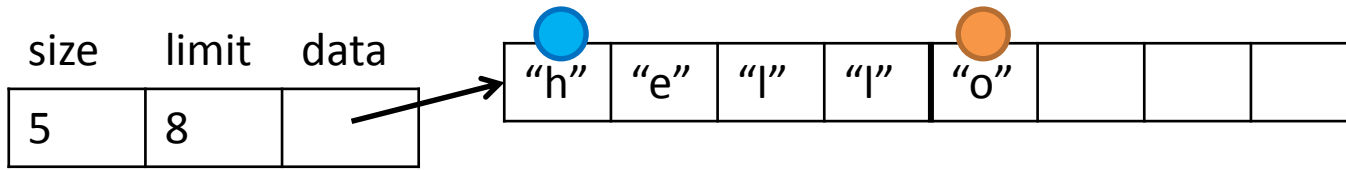
Unit of cost:
array write

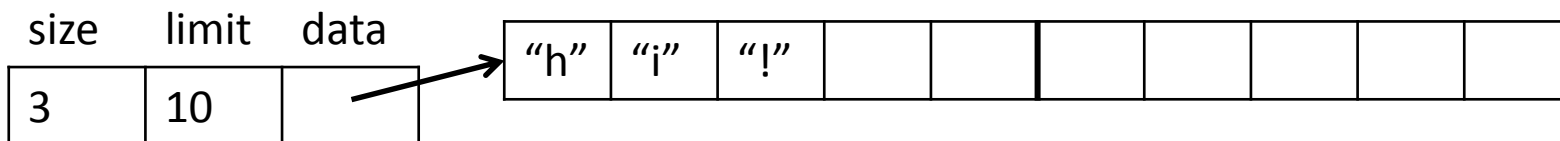
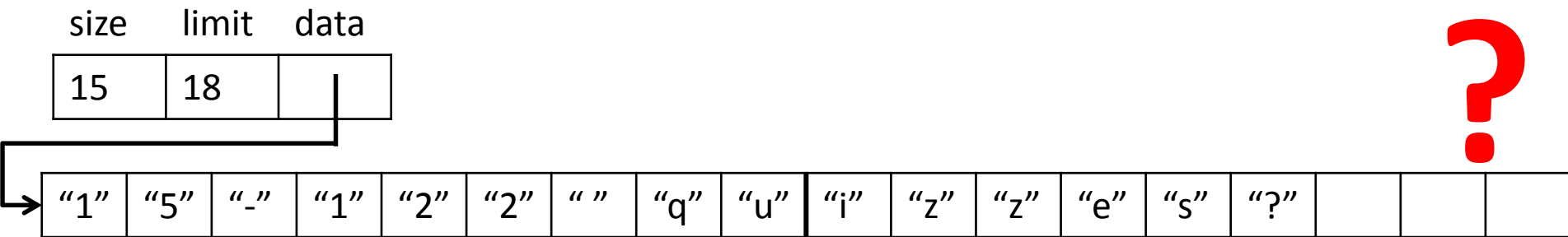
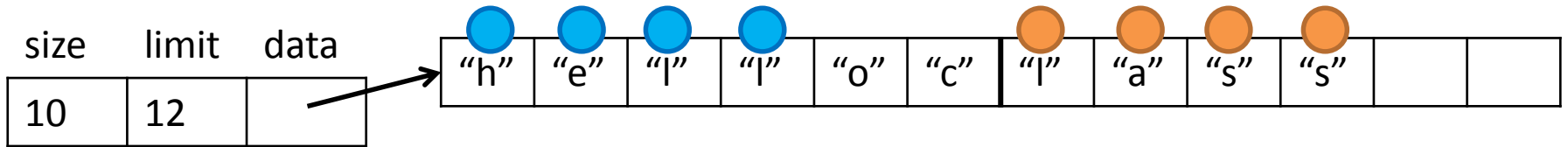
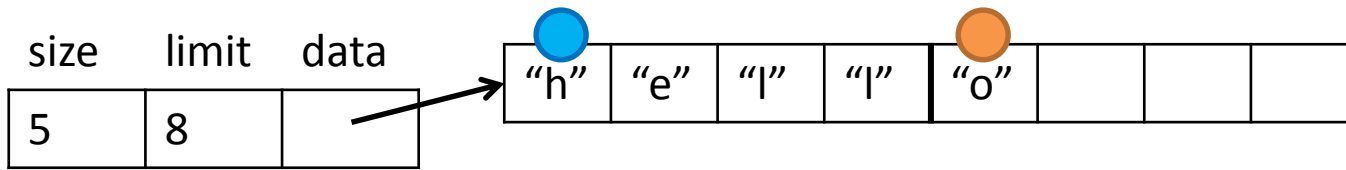


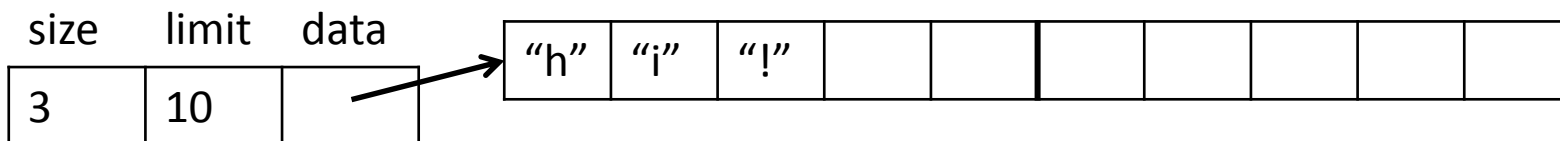
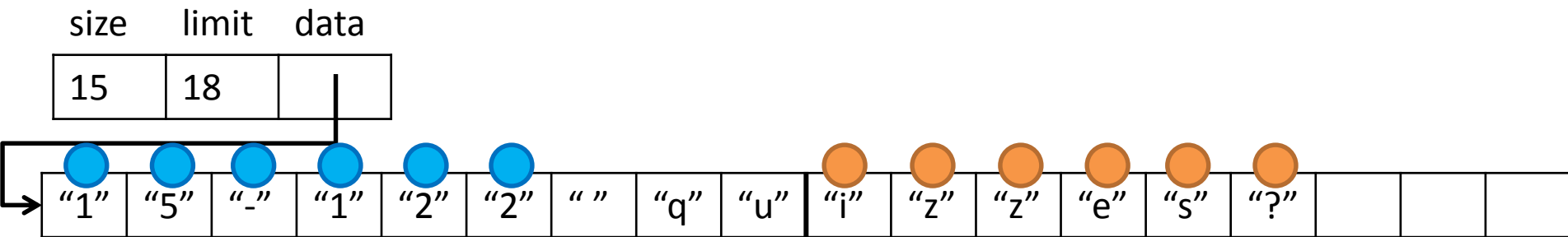
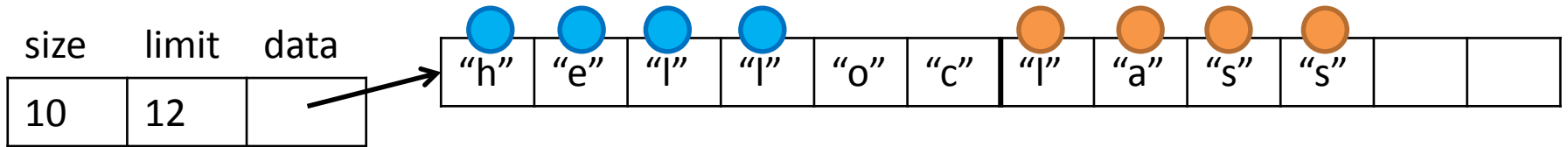
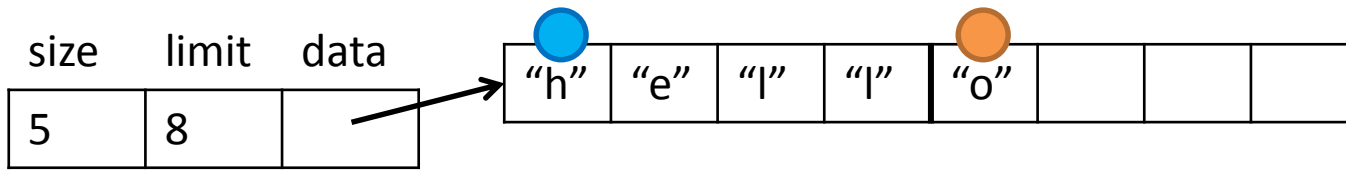
Unit of cost:
array write



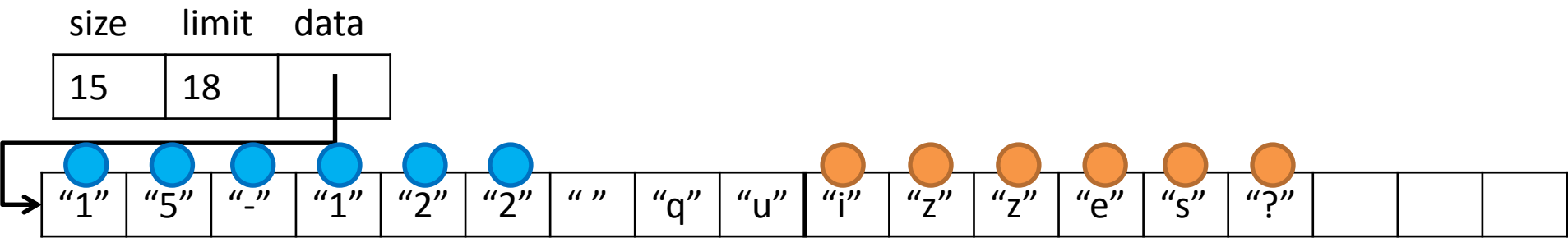
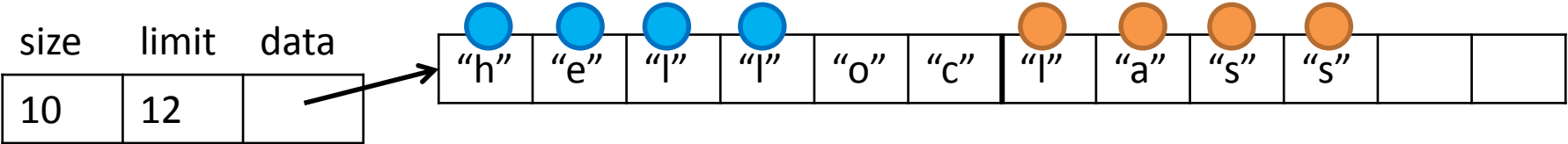
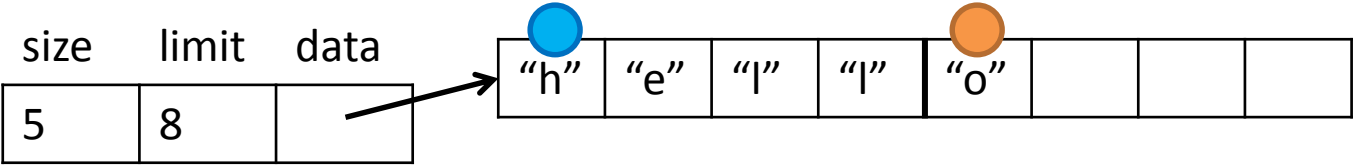








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