

LRU Cache

Initial						Cache is empty, capacity = 5
Add(1)	1					
Add(2)	2	1				Always add new element to header
Add(3)	3	2	1			
Get(1)	1	3	2			Return 1 and move it to header
Get(3)	3	1	2			Return 3 and move it to header
Get(3)	3	1	2			Return 3, position remains
Add(4)	4	3	1	2		
Add(5)	5	4	3	1	2	Cache is full
Add(6)	6	5	4	3	1	Add new element 6 and delete the last element 2
Get(4)	4	6	5	3	1	
Add(7)	7	4	6	5	3	Add new element 7 and delete the last element 1
Add(8)	8	7	4	6	5	Add new element 8 and delete the last element 3