**Report**

# BlockingQueue

BlockingQueue is a special kind of queue (like the queue in subway) that is most used in multi-threaded programming . we can get access to it through java.util.concurrent package ,this helps that threads will be used at the same time without messing up things . basically we can consider it as a box , with some space , when we wanna add sth into it and its full , we have to wait until sth comes out first , and opposite .it has 4 different methods for inserting and removing the elements , mostly used it probably put() and take() method (Blocks).

# ArrayBlockingQueue

ArrayBlockingQueue is a implementation of BlockingQueue , the difference between them is that in ArrayBlockingQueue data or elements will be save in a fixed size array , imagine a parking with 7 parking spaces , so fixed space is 7 parking spaces , can decrease or increase . how ever in BlockingQueue we could have unlimited amount of elements because nothing was stopping it . here there is first in , first out rule , which basically means that first elements that get out of array is the one that was in array the longest.

# Example in real code

Maybe having some example can help us understand the usage of these a little better