



ΧΑΡΟΚΟΠΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ
HAROKOPIO UNIVERSITY

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Informatics & Telematics

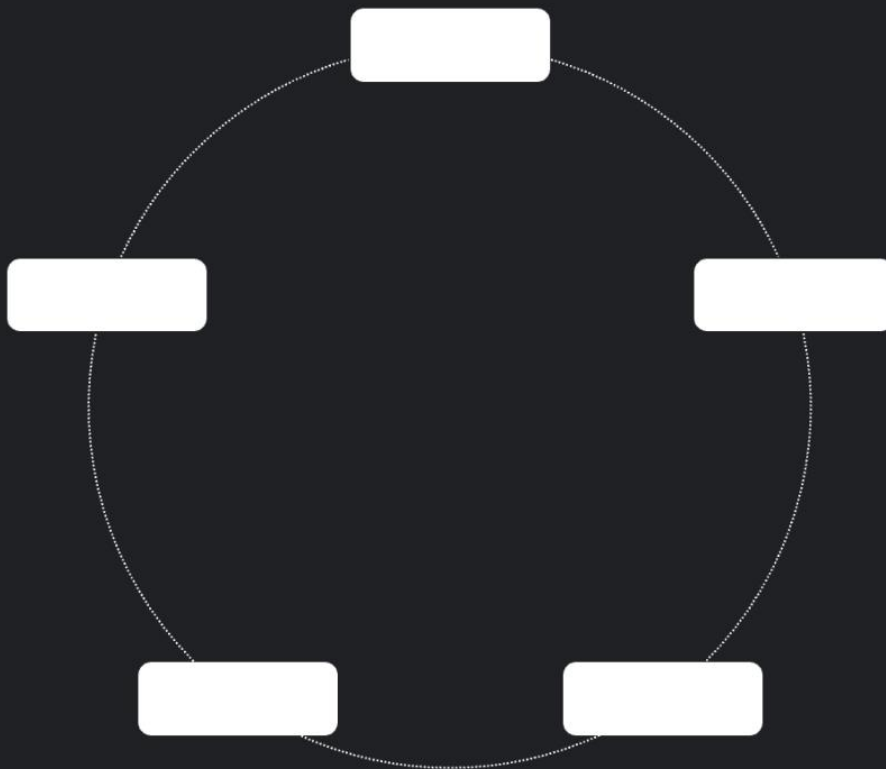
Circular Queue

21st December 2021

PROFESOR:
Dimitrios Michail

CLASS:
Data Structures

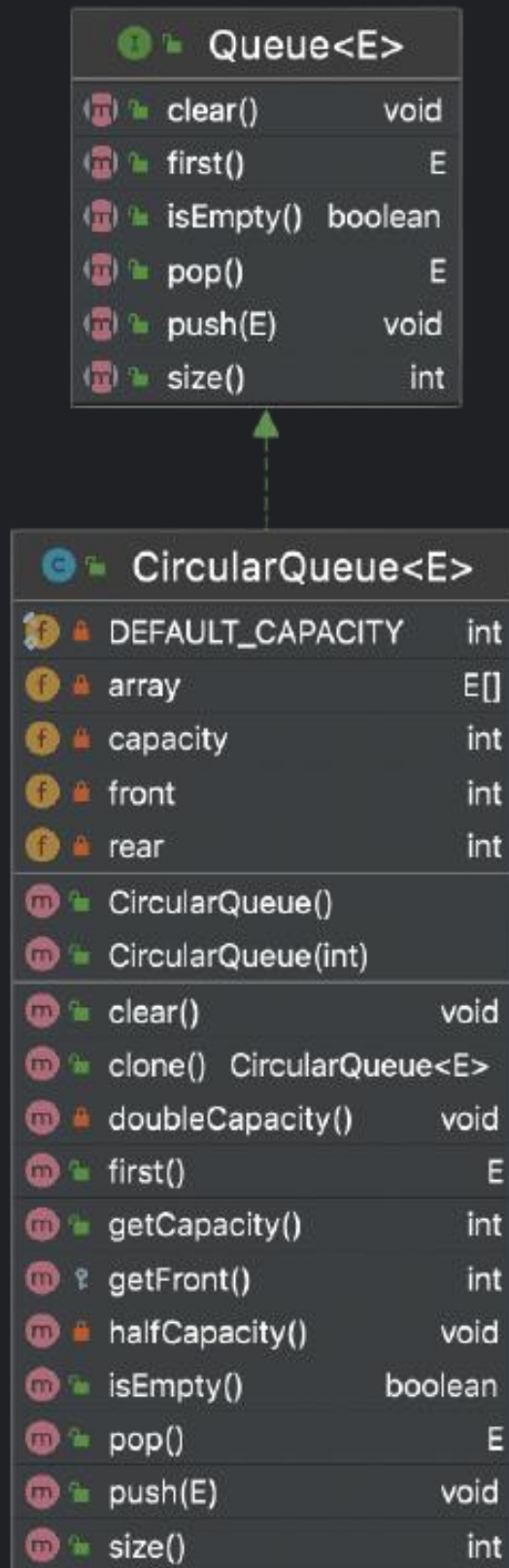
SEMESTER:
3rd



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Project Structure



Regular

Tests

Limits and circularity

The goal of this test is to push the structure to the limits. Further than that, we want to test the circular nature of the structure and make sure of the quality on managing the elements.

Stages

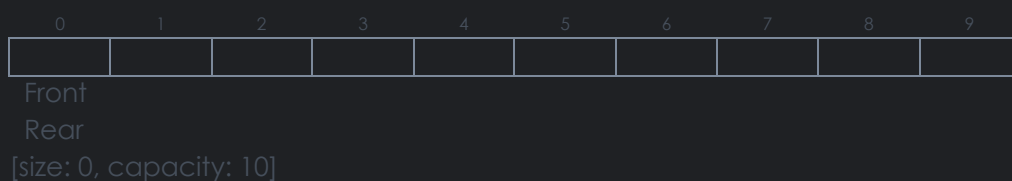
There are the following steps in the test:

1. Fills the queue at 90% of the capacity
2. Pops 60% of the capacity elements
3. Pushes new elements at 60% of the capacity
4. Pushes an element in order to reach 100% of the capacity so the queue will double it self
5. Pops all elements and checks the elements

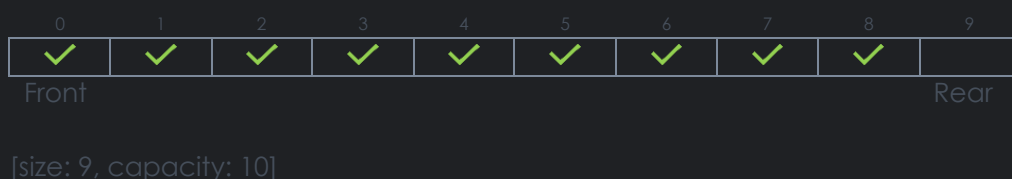
Example

Stage 1

Let's set a small capacity at 10 elements.



Pushes elements to the queue up to 90% capacity.



Stage 2

Pops 60% of the elements inside the queue.

