

CSE 101 3/31/20

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An ADT consists of :

- (1) a set of 'mathematical structures' called states.
 - (2) a set of operations on states.
- Two (rough) categories
- Manipulation Procedures (setters)
 - Access functions (getters)
 - other

Example Integer Queue

States: { finite sequences of ints }

OPS:

- Enqueue()
- Dequeue()
- getFront()
- getLength()
- isEmpty()

Possible History :

<u>op</u>	<u>state</u>
.	()
Enqueue(5)	(5)
Enqueue(1)	(5, 1)
Enqueue(7)	(5, 1, 7)
Dequeue()	(1, 7)