

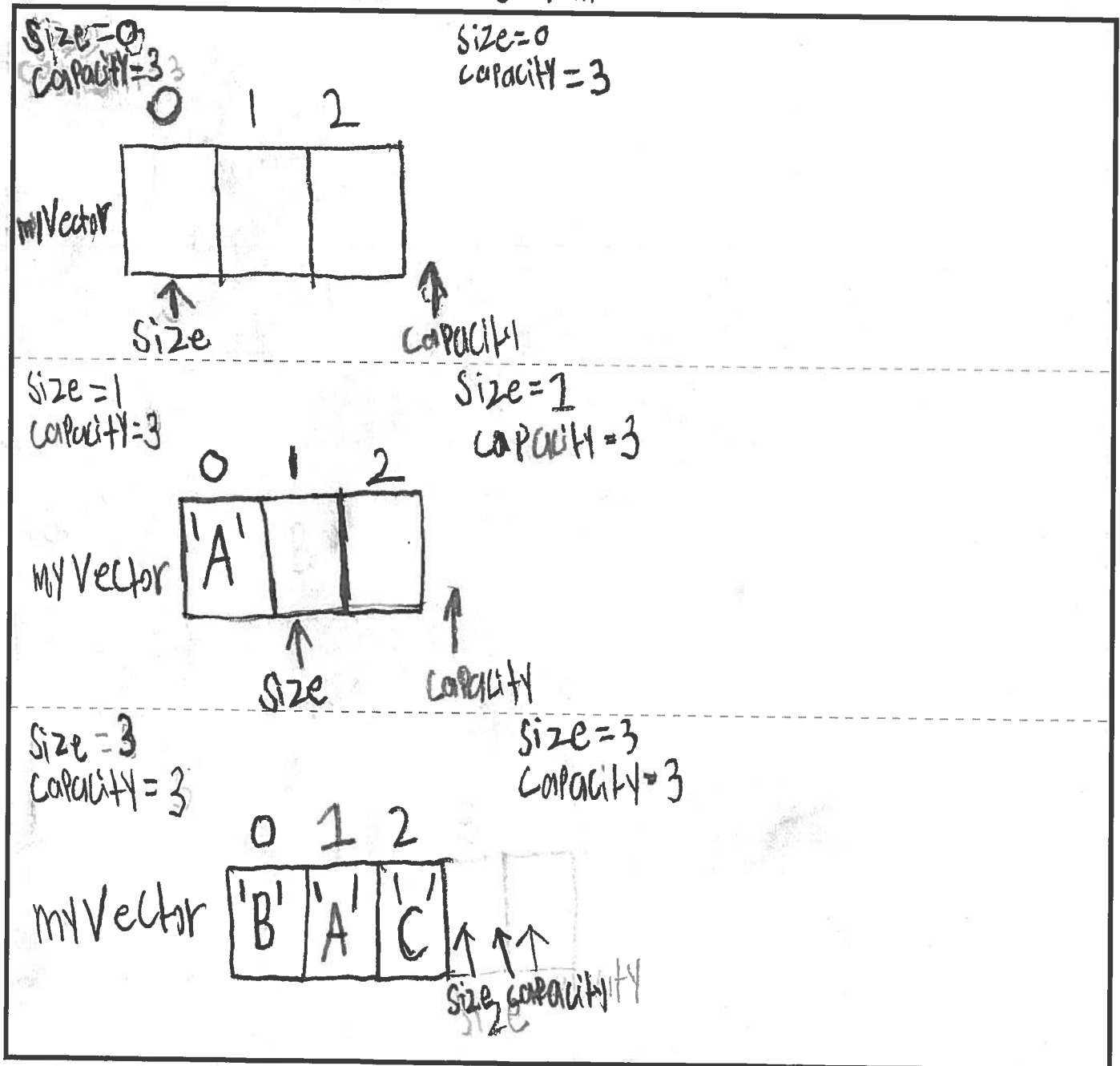
CPSC 131, Data Structures – Spring 2023

In-Class Sketching Activity

Name Kush PatelCWID 885857847Section 01

Sketch #1

Extendable Capacity

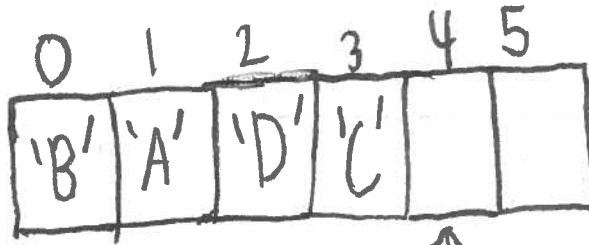


Sketch #2

Extendable Capacity Vector

Size=4
Capacity=6

myVector



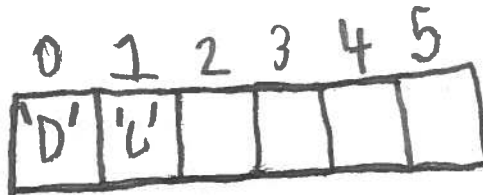
↑
Size

Size=4
Capacity=6

↑
Capacity

Size=2
Capacity=6

myVector



↑
Size

Size=2
Capacity=6

↑
Capacity

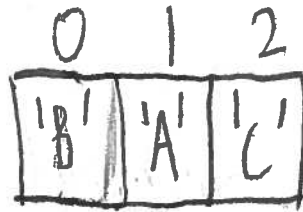
Sketch #3

Fixed Capacity Vector

Size=3
Capacity=3

Size=3
Capacity=3

myVector

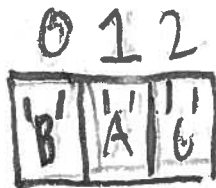


↑ ↑
Size Capacity

Size=3
Capacity=3

Size=3
Capacity=3

myVector
myVector



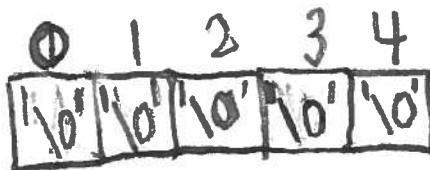
↑ ↑
Size Capacity

No more capacity (capacity error)
is thrown

Array

Size=5
Capacity=5

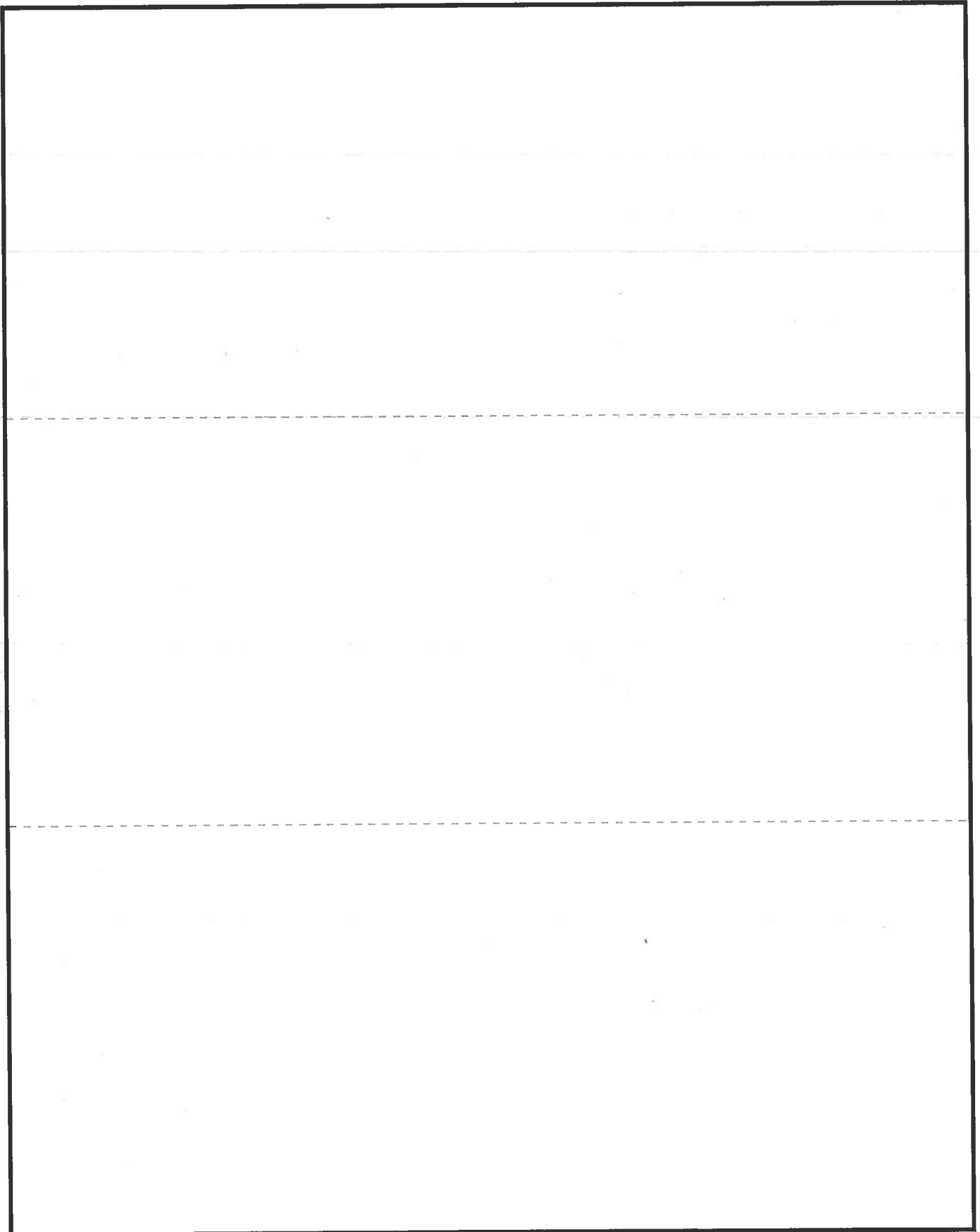
Size=5
Capacity=5

my ~~Array~~

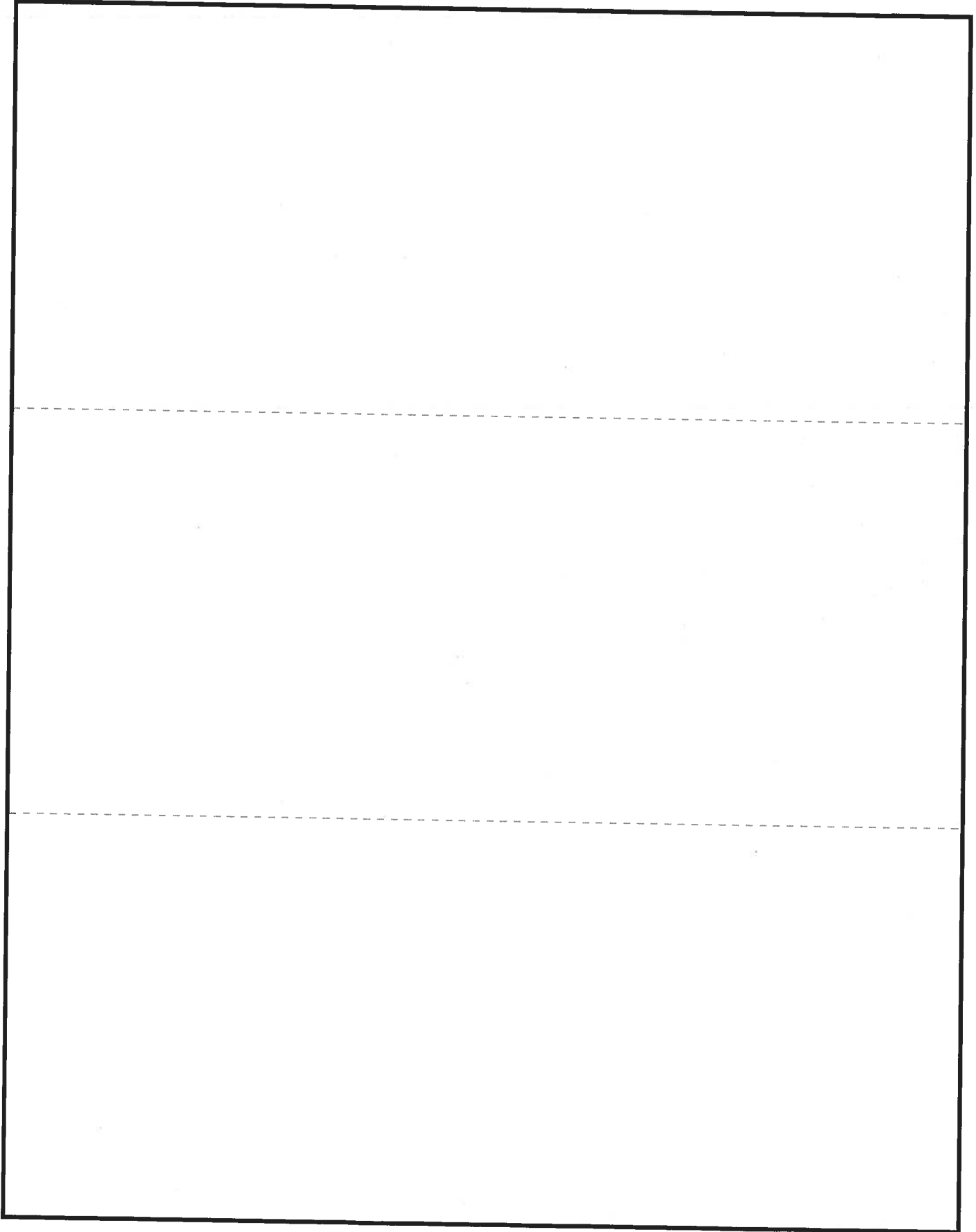
↑ ↑
Size Capacity

No such context error
You can't insert anything

Sketch #4



Sketch #5



Sketch #6

