## Group 3

## J symbol (right-brace-dot): \}.

## Monadic case:

## Name: behead

Rank: _(infinite/unbounded) - applies to the entire array y
Definition: $\}$. y removes the first item of y .
Please also include explanations for your answers to some of the following questions:
What is the result of removing the head of a vector?
What is the result of removing the head of a matrix?
What is the result of removing the head of a scalar?
What is the result of beheading an empty vector?

## Dyadic case:

## Name: drop

Rank: 1 (left); (right) - applies to a vector on the left and the entire array on the right Definition (scalar x ): $\mathbf{x}\} \mathbf{y}$ drops at most x items from y . If x is positive, then items are dropped from the front of y . If x is negative, then the items are dropped from the back of y .
Definition (vector $\mathbf{x}$ ): $\mathbf{x}\} \mathbf{y}$ y returns an array constructed from the elements of y indexed by dropping
 positive, and from the back is xi is negative. If xi is infinity, then xi is the length of axis i of $y$.

Please also include explanations for your answers to some of the following questions:
What array is returned when x is positive?
What array is returned when x is negative?
What array is returned when $x$ is greater than the number of items in $y$ ?
What array is returned when x is zero?
What array is returned when $x$ is a vector?
What array is returned when x is a infinity?

