

ALGORITHM

- Step-1 :- START
- Step-2 :- Create a class named as boxes.
- Step-3 :- Create a method named as main. In this function, create a variable named as n to store the number of boxes. Check if the number of boxes is greater than 0 and less than 1000 or not, if true then print Invalid Input and exit the program. Create an array named as cartonSizes to store the various sizes of the boxes. Create a for-loop (from 0 to length of cartonSizes) inside which calculate and print the volume of each box size. Print the total volume of all the boxes.
- Step-4 :- END

VD TABLE

Sr. No.	Variable	Data Type	Description
1	n	int	To store the number of boxes
2	cartonSizes	int[]	To store the various sizes of the boxes
3	i	int	To store the index of the array
4	cartonCount	int	To store the volume of each box size
5	total	int	To store the total number of all the boxes
6	t	int	Used as temporary variable

OUTPUT

```
BlueJ: Terminal Window - basic
Options
Enter number of boxes (N): 726
48 * 15 = 720
6 * 1 = 6
Remaining boxes = 0
Total number of boxes = 726
Total number of cartons = 16
```