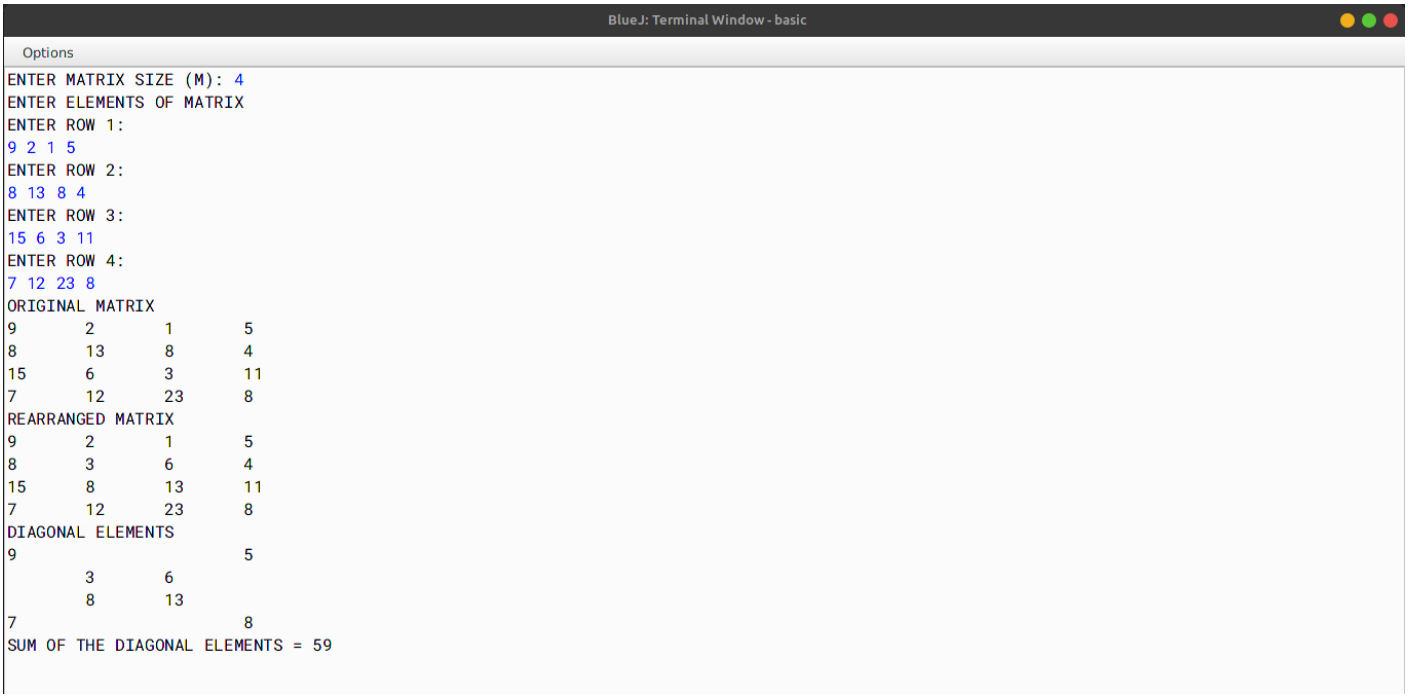
ALGORITHM

- Step-1 :- START
- Step-2 :- Create a class named as `rearrange`.
- Step-3 :- Create a method named as `sortNonBoundaryMatrix` passing an array and an integer as parameters. In this function, sort the non-boundary elements of the matrix in ascending order by first converting the 2D array into 1D array and then sorting it and then again transferring in to 2D array.
- Step-4 :- Create a method named as `computePrintDiagonalSum` passing an array and an integer as parameters. In this function, compute the sum of the diagonal elements of the matrix and print the final sum.
- Step-5 :- Create a method named as `printMatrix` passing an array and an integer as parameters. In this function, print the matrix.
- Step-6 :- Create a method named as `main`. In this function, input the size of the matrix and the elements of the matrix from the user using the Scanner class. Then, call the `sortNonBoundaryMatrix` function and then the `computePrintDiagonalSum` function and finally call the `printMatrix` function.
- Step-7 :- END

VD TABLE

Sr. No.	Variable	Data Type	Description
1	m	int	To store the size of the matrix
2	a	int[][]	Array to store the elements of the matrix
3	i	int	Loop variable
4	j	int	Loop variable
5	t	int	Temporary variable to store the elements of the matrix
6	sum	int	To store the sum of the diagonal elements of the matrix
7	k	int	Temporary Variable
8	b	int[]	Array to store the elements of the matrix (1D Format)

OUTPUT


BlueJ: Terminal Window - basic
Options
ENTER MATRIX SIZE (M): 4
ENTER ELEMENTS OF MATRIX
ENTER ROW 1:
9 2 1 5
ENTER ROW 2:
8 13 8 4
ENTER ROW 3:
15 6 3 11
ENTER ROW 4:
7 12 23 8
ORIGINAL MATRIX
9 2 1 5
8 13 8 4
15 6 3 11
7 12 23 8
REARRANGED MATRIX
9 2 1 5
8 3 6 4
15 8 13 11
7 12 23 8
DIAGONAL ELEMENTS
9 5
3 6
8 13
7 8
SUM OF THE DIAGONAL ELEMENTS = 59