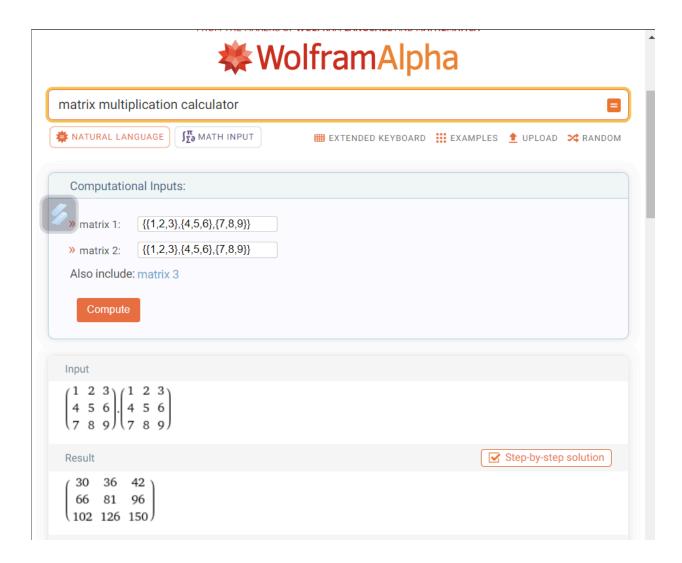
Felix Beauchemin-Berthelot (T00684599)
Operating Systems OL (COMP 3411)
Assignment 3 (Multithreaded programs) ie... (MultiThreadedMatrixMultiplication.java)

Output of the program:

```
[dk4comp34114@cs2 ~]$ javac MultiThreadedMatrixMultiplication.java
[dk4comp34114@cs2 ~]$ java MultiThreadedMatrixMultiplication
Enter the number of rows for matrix A: 3
Enter the number of cols for matrix A: 3
Enter the number or rows for matrix B: 3
Enter the number of cols for matrix B: 3
Enter the elements for the matrix A:
Enter the element at row 1, col 1: 1
Enter the element at row 1, col 2: 2
Enter the element at row 1, col 3: 3
Enter the element at row 2, col 1: 4
Enter the element at row 2, col 2: 5
Enter the element at row 2, col 3: 6
Enter the element at row 3, col 1: 7
Enter the element at row 3, col 2: 8
Enter the element at row 3, col 3: 9
Enter the elements for the matrix B:
Enter the element at row 1, col 1: 1
Enter the element at row 1, col 2: 2
Enter the element at row 1, col 3: 3
Enter the element at row 2, col 1: 4
Enter the element at row 2, col 2: 5
Enter the element at row 2, col 3: 6
Enter the element at row 3, col 1: 7
Enter the element at row 3, col 2: 8
Enter the element at row 3, col 3: 9
Answer:
30 36 42
66 81 96
102 126 150
[dk4comp34114@cs2 ~]$
                                Q Search
```

Confirming it with an online matrix multiplication resource to ensure correctness of the execution:

^{**}Code is submitted as well**



Another test case is if the sizes of the matrix do not match and therefore matrix multiplication cannot occur. (For this one I compiled it in my command prompt)

```
C:\Users\felix\Downloads>java MultiThreadedMatrixMultiplication
Enter the number of rows for matrix A: 1
Enter the number of cols for matrix A: 2
Enter the number of rows for matrix B: 3
Enter the number of cols for matrix B: 4
Error: Size mismatch for the inputted matrix dimensions
C:\Users\felix\Downloads>
```

In this case rowA != colB and rowB != colA, therefore it causes the error.