Brute Force

```
class Tester {

   public static int[][] multiply(int arr1[][], int arr2[][]) {
      int n = arr1.length; // assuming arr1 and arr2 are square matrices of the same sizeint[][] result =
      new int[n][n];

      // Brute force matrix multiplicationfor (int i
      = 0; i < n; i++) {
         for (int j = 0; j < n; j++) {
            for (int k = 0; k < n; k++) {
               result[i][j] += arr1[i][k] * arr2[k][j];
            }
         }
      }

      return result;
   }

   public static void main(String[] args) {int
      arr1[][] = { { 2, 4 }, { 1, 4 } };
      int arr2[][] = { { 1, 4 }, { 1, 3 } };

      int[][] arr3 = multiply(arr1, arr2);

      // Printing the resulting matrix arr3
```

```
        for (int i = 0; i < arr3.length; i++) { for
            (int j = 0; j < arr3.length; j++) {
                System.out.print(arr3[i][j] + " ");
            }
            System.out.println();
        }
    }
}
```

```
6 20
5 16
```