

```

/* Multiplies two double matrices
 *
 * @param m1 First matrix
 * @param m2 Second matrix
 * @return m1 multiplied by m2
 */

```

```
public static double[][] multiply(double[][] m1, double[][] m2)
```

```

int m1rows = m1.length;
int m1cols = m1[0].length;
int m2rows = m2.length;
int m2cols = m2[0].length;

```

m1cols != m2rows ?

```

throw new
IllegalArgumentException("matrices don't
match: "
+ m1cols + " != " + m2rows);

```

Exception

```

double[][] result = new double[m1rows][m2cols];
int j = 0;

```

i < m1rows ?

int i = 0

int j = 0

j < m2cols ?

i++

result[i][j] = 0.0;

j++

int j = 0

j < m2cols ?

i++

int k = 0

k < m1cols ?

j++

k++

result[i][j] += m1[i][k] * m2[k][j];

Return result;

End

