

```

/* Multiplies a double matrix by a
double vector
*
* @param m1 The matrix
* @param m2 The vector
* @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;
```

m1cols != m2rows ?

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

Exception

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

i < m1rows ?

result[i] = 0.0;

i++

int l = 0

l < m1rows ?

Return result;

End

int k = 0

k < m1cols ?

i++

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

k++

