

```
/* Calculates dot product of two double vectors
 *
 * @param m1 First vector
 * @param m2 Second vector
 * @return dot product of m1, m2
 */
```

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

```
double[][] result = new double[m1.length];
```

```
throw new IllegalArgumentException("vector length don't match : "
    + m1.length + " != " + m2.length);
```

Exception

i < m.length ?

No

```
int j = 0;
```

i < m1.length ?

Yes

```
result[i] = m1[i] * m2[i];
```

```
i++
```

```
return result;
```

End