Given two matrices, A = [aij] and B = [bij] this following algorithm computes the resulting matrix C = AB.

For example:



2x3 3x3 2x3

**matrixMult(B):C**

**// confirm correct sizes for multiplication**

If not (this.getcolsize() = B.getrowsize())

then throwException(“can not multiply – incorrect dimensions”)

**// create output matrix C**

C 🡨 matrixClass(this.getrowsize(), B.getcolsize())

**// now do the math**

For outputrow 🡨 1 to C.getrowsize() by 1

For outputcol 🡨 1 to C.getcolsize() by 1

**// set initial sum of prod value**

Sumofprod 🡨 0

**// produce value for [cij] at location i,j**

For resultloc 🡨 1 to this.getcolsize() by 1

Sumofprod 🡨 Sumofprod + this.get(outputrow,resultloc) \* B.get(resultloc,outputcol)

**// update [cij]**

C.set(outputrow,outputcol,Sumofprod)

**// return result matrix**

Return(C)