```
process worker[i = 0 to n-1] {
  double a[n];       # row i of matrix a
  double b[n];       # one column of matrix b
  double c[n];       # row i of matrix c
  double sum = 0.0;  # storage for inner products
  int nextCol = i;   # next column of results
  receive row i of matrix a and column i of matrix b;
  # compute c[i,i] = a[i,*] × b[*,i]
  for [k = 0 to n-1]
    sum = sum + a[k] * b[k];
  c[nextCol] = sum;
  # circulate columns and compute rest of c[i,*]
  for [j = 1 to n-1] {
    send my column of b to the next worker;
    receive a new column of b from the previous worker;
    sum = 0.0;
    for [k = 0 to n-1]
      sum = sum + a[k] * b[k];
    if (nextCol == 0)
      nextCol = n-1;
    else
      nextCol = nextCol-1;
    c[nextCol] = sum;
  }
  send result vector c to coordinator process;
}
```

Matrix Multiplication Using a Circular Pipeline