	Draw what the inner-most loop computes

for $i := 0, \ldots, m-1$
   for $j := 0, \ldots, n-1$
     for $p := 0, \ldots, k-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	

for $i := 0, \ldots, m-1$
   for $p := 0, \ldots, k-1$
     for $j := 0, \ldots, n-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	

for $j := 0, \ldots, n-1$
   for $i := 0, \ldots, m-1$
     for $p := 0, \ldots, k-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	

for $j := 0, \ldots, n-1$
   for $p := 0, \ldots, k-1$
     for $i := 0, \ldots, m-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	

for $p := 0, \ldots, k-1$
   for $i := 0, \ldots, m-1$
     for $j := 0, \ldots, n-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	

for $p := 0, \ldots, k-1$
   for $j := 0, \ldots, n-1$
     for $i := 0, \ldots, m-1$
       $\gamma_{i,j} := \alpha_{i,p}\beta_{p,j} + \gamma_{i,j}$
     end
   end
end	