

```

for (j=0;j<NETWORK_SIZE;j=j+1)           //read adjacency matrix at row j
  for (i=0;i<NETWORK_SIZE;i=i+1)         //and column i
    if (adjacencyMatrix[j][i]==1)         //provide path from node j to node i
      begin
        input_address=i;
        output_address=j;
        routingTable[i][j][CENTER]=1;    //connect packet coming to router i from source j to PE
        if (output_address[X]>input_address[X]) //establish path along x axis
          for (x=output_address[X]; x>input_address[X]; x=x-1)
            routingTable[output_address[Y]*X_SIZE+x][j][WEST]=1;
        else
          for (x=output_address[X]; x<input_address[X]; x=x+1)
            routingTable[output_address[Y]*X_SIZE+x][j][EAST]=1;
        if (output_address[Y]>input_address[Y]) //establish path along y axis
          for (y=output_address[Y]; y>input_address[Y]; y=y-1)
            routingTable[y*X_SIZE+input_address[X]][j][SOUTH]=1;
        else if (output_address[Y]<input_address[Y])
          routingTable[y*X_SIZE+input_address[X]][j][NORTH]=1;
      end
    end
  end
end

```