```
chan exchange[1:n,1:n](int row, column, state);
process cell[i = 1 to n, j = 1 to n] {
  int state;
                 # initialize to dead or alive
  declarations of other variables;
  for [k = 1 to numGenerations] {
    # exchange state with 8 neighbors
    for [p = i-1 \text{ to } i+1, q = j-1 \text{ to } j+1]
       if (p != q)
         send exchange[p,q](i, j, state);
    for [p = 1 \text{ to } 8] {
      receive exchange[i,j](row, column, value);
      save value of neighbor's state;
    }
    update local state using rules in text;
  }
}
```



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