

```
int board[9];
    // board[1] to board[8] are used,
    // board[r] = c means that the queen on row r is in column c

bool all_ok(int r)
{ // assume the queens on rows 1 to r-1 are all good, no conflicts;
  if the queen on row r is also not in conflict with any other
    return true;
  else
    return false; }

void put_queen(int r)
{ // the initial call is put_queen(1);
  // given that the queens on rows 1 to r-1 have no conflicts, ...
  // ... try to place a new queen in row r, ...
  // ... then continue to fill the board in the same way
  if (r == 9)
    SUCCESS // print the board or whatever
  else
    for (int c = 1; c <= 8; c += 1)
      { board[r] = c;
        if (all_ok(r))
          put_queen(r+1); } }
```