

```
void put_queen(int r)
{
    if (r == 9)
        SUCCESS
    else
    { CHOOSE
        board[r] = 1;
        OR
        board[r] = 2;
        OR
        board[r] = 3;
        OR
        board[r] = 4;
        OR
        board[r] = 5;
        OR
        board[r] = 6;
        OR
        board[r] = 7;
        OR
        board[r] = 8;
        if (! all_ok(r))
            FAIL
        put_queen(r+1); }
}
```