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// recursive eight queens
#include <iostream>
#include <cmath>
using namespace std;
bool ok(int * q, int i)
       for (int k=0; k < i; k++)
               if((q[k]==q[i]) || (abs(q[k]-q[i])==i-k))
                       return false; //conflict, go back and try next row
       return true; //this one's ok, return and move on to next column
}
void print(int * q)
        static int count =0;
  cout<<++count<<endl;</pre>
        for (int k=0; k<8; k++)
               cout<< q[k];cout<<endl;</pre>
}
void move(int* q, int i) // try place in col i
       if(i==8)
        {
               print(q);
               return;
        }
       for(int j=0; j<8; j++) // j is the row value
               q[i]=j;
               if(ok(q,i)) // try and place a queen in row j of col i,if yes
                       move(q,i+1); // go to next column otherwise try next j
        }
       // no value of j worked so return;
};
int main()
        int q[8];
        move(q,0);
        system("pause");
}
```