#include <stdio.h>

int is\_safe(int rows[8], int x, int y)

{

int i;

i = 0;

if (y == 0)

return (1);

while (i < y)

{

if (rows[i] == x || rows[i] == x + y - i || rows[i] == x - y + i)

return (0);

i++;

}

return (1);

}

int count\_solutions(int rows[8])

{

int count;

count = 0;

count++;

return (count);

}

void eight\_queens\_helper(int rows[8], int y)

{

int x;

int num;

int count;

x = 0;

num = 0;

count = 0;

while (x < 8)

{

if (is\_safe(rows, x, y))

{

rows[y] = x;

if (y == 7)

{

num = num + count\_solutions(rows);

}

else

{

eight\_queens\_helper(rows, y + 1);

count++;

}

}

x++;

}

printf("Count %i \n", count);

}

int main()

{

int rows[8];

int numsol;

eight\_queens\_helper(rows, 0);

//numsol = eight\_queens\_helper(rows, 0);

//printf("Solutions : %i", numsol);

return (0);

}