#include

<stdio.h>

#include <stdlib.h>

static void print\_circuit(const unsigned int \*circuit, size\_t len)

{

unsigned int v;

for (v = 0; v < len; v++) {

printf("%d ", circuit[v]);

}

putchar('\n');

}

int main(void)

{

unsigned int \*\*adjmat;

const size\_t n = 5;

unsigned int i, j;

/\* Create a complete graph on 5 vertices \*/

adjmat = malloc(n \* sizeof(unsigned int \*));

for (i = 0; i < n; i++) {

adjmat[i] = malloc(n \* sizeof(unsigned int));

for (j = 0; j < n; j++) {

adjmat[i][j] = 1;

}

}

hamiltonian\_circuits(adjmat, n, print\_circuit);

for (i = 0; i < n; i++) {

free(adjmat[i]);

}

free(adjmat);

return 0;

}