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// Phan chia doi bong (Do Thi Phan Doi)
#include <stdio.h>
#define white -1
#define red 0
#define green 1
int color[100];
int fail;
// List
typedef struct {
    int data[100];
    int size;
} List;
void make null list(List* L) {
    L\rightarrowsize = 0;
}
void push_back(List* L, int x) {
    L->data[L->size] = x;
    ++L->size;
}
int element_at(List* L, int i) {
    return L->data[i - 1];
}
// Graph
typedef struct {
    int A[100][100];
    int n;
} Graph;
void init_graph(Graph* G, int n) {
    G->n = n;
    int i, j;
    for (i = 1; i <= n; ++i) {
        for (j = 1; j <= n; ++j) {
            G->A[i][j] = 0;
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}
   }
}
void add_egde(Graph* G, int x, int y) {
    G->A[x][y] = 1;
    G->A[y][x] = 1;
}
int adjacent(Graph* G, int x, int y) {
    return G->A[x][y];
}
List neighbors(Graph* G, int x) {
    int y;
    List list;
    make null list(&list);
    for (y = 1; y \leftarrow G->n; ++y) {
        if (adjacent(G, x, y)) {
            push_back(&list, y);
        }
    }
    return list;
}
void colorize(Graph* G, int x, int c) {
    if (color[x] == white) {
        color[x] = c;
        List list = neighbors(G, x);
        int i;
        for (i = 1; i <= list.size; ++i) {
            int y = element_at(&list, i);
            colorize(G, y, -c);
    } else {
        if (color[x] != c) {
            fail = 1;
        }
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}
int is_bigraph(Graph* G) {
    int i;
    for (i = 1; i \leftarrow G->n; ++i) {
        color[i] = white;
    }
    fail = 0;
    colorize(G, 1, green);
    return !fail;
}
int main() {
   //freopen("dt.txt", "r", stdin);
    Graph G;
    int n, m, i, x, y;
    scanf("%d%d", &n, &m);
    init_graph(&G, n);
    for (i = 1; i \leftarrow m; ++i) {
        scanf("%d%d", &x, &y);
        add_egde(&G, x, y);
    }
    if (is_bigraph(&G)) {
        for (i = 1; i <= n; ++i) {
            if (color[i] == color[1]) {
                printf("%d ", i);
        printf("\n");
        for (i = 1; i \le n; ++i) {
            if (color[i] != color[1]) {
                printf("%d ", i);
```

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}
    printf("\n");
} else {
    printf("IMPOSSIBLE");
}

return 0;
}
```