Compute the transitive closure of a given directed graph using Warshall's algorithm

```
#include <stdio.h>
int n;
int a[10][10];
int p[10][10];
void write_data() {
  int i, j;
  printf("The path matrix is shown below\n");
  for (i = 0; i < n; i++) {
    for (j = 0; j < n; j++) {
       printf("%d ", p[i][j]);
    }
    printf("\n");
  }
}
void read_data() {
  int i, j;
  printf("Enter the number of nodes: ");
  scanf("%d", &n);
  printf("Enter the adjacency matrix:\n");
  for (i = 0; i < n; i++) {
    for (j = 0; j < n; j++) {
       scanf("%d", &a[i][j]);
    }
  }
}
```

```
void path_matrix() {
  int i, j, k;
  for (i = 0; i < n; i++) {
    for (j = 0; j < n; j++) {
       p[i][j] = a[i][j];
    }
  }
  for (k = 0; k < n; k++) {
    for (i = 0; i < n; i++) {
       for (j = 0; j < n; j++) {
          if (p[i][k] == 1 \&\& p[k][j] == 1)
            p[i][j] = 1;
       }
     }
  }
}
int main() {
  read_data();
  path_matrix();
  write_data();
  return 0;
}
```

```
Enter the number of nodes: 2
Enter the adjacency matrix:
2
3

The path matrix is shown below
2 3
3 6

=== Code Execution Successful ===
```