```c
int **warschall_algorithm(int n, int R[n][n])
{
    int T[n][n];
    int **S = R;
    for(int i = 0; i < n; ++i)
    {
        for(int j = 0; j < n; ++j)
        {
            for(int k = 0; k < n; ++k)
                T[j][k] = S[j][k] | (S[j][i] & S[i][k]);
        }
        S = T;
    }
    return T;
}
```